



TECHNICAL MEMORANDUM PHASE II WETLAND INVESTIGATION

AMERICAN CHEMICAL SERVICE, INC.
NPL SITE
GRIFFITH, INDIANA

FEBRUARY 1997

PREPARED FOR:
ACS RD/RA EXECUTIVE COMMITTEE

PREPARED BY:
MONTGOMERY WATSON
ADDISON, ILLINOIS

PROJECT NO. 1252042.0809.0076



MONTGOMERY WATSON

TECHNICAL MEMORANDUM

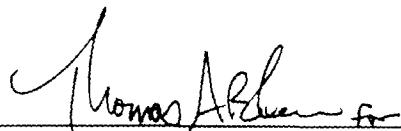
PHASE II WETLAND INVESTIGATION

AMERICAN CHEMICAL SERVICE, INC.
NPL SITE
GRIFFITH, INDIANA

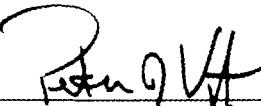
FEBRUARY 1997



John A. Hurtenbach
Environmental Scientist



Michael W. Kierski, Ph.D.
Senior Environmental Scientist



Peter J. Vagt, Ph.D.
Project Manager

TABLE OF CONTENTS

| | |
|---|----|
| INTRODUCTION | 1 |
| BACKGROUND | 1 |
| PHASE II SEDIMENT SAMPLING AND ANALYSIS | 2 |
| Wetland Grid Sampling Locations..... | 3 |
| Transect Sampling Locations..... | 3 |
| Sampling Locations South of Culvert Outfall..... | 4 |
| Sampling Location Survey..... | 4 |
| Sediment Sampling Procedure | 4 |
| Phased Analytical Program | 5 |
| Data Validation and Reduction | 6 |
| Discussion of PCB Results..... | 7 |
| Extent of PCB Impacted Sediments..... | 8 |
| Determination of a Threshold Area of PCB Affected Sediments | 9 |
| Discussions of Mercury Results..... | 10 |
| CONCLUSIONS | 11 |

LIST OF TABLES

| | |
|---------|---|
| Table 1 | November 1996 Wetlands Sample Location Coordinates |
| Table 2 | Summary of Wetlands Sediment Phased Sample Analysis |
| Table 3 | Summary of Phased Analytical Approach |
| Table 4 | Summary of Wetland Sediment Sample Analytical Results |

LIST OF FIGURES

| | |
|----------|---|
| Figure 1 | Wetland Sediment Sample Locations and PCB Concentrations |
| Figure 2 | Wetland Sediment PCB Isoconcentration Map (0-0.5 ft interval) |
| Figure 3 | Wetland Sediment PCB Isoconcentration Map (0.5-1.0 ft interval) |
| Figure 4 | Wetland Sediment PCB Isoconcentration Map (1.0-1.5 ft interval) |
| Figure 5 | Wetland Sample Locations and Mercury Concentrations |

LIST OF APPENDICES

| | |
|------------|-------------------------------|
| Appendix A | Analytical Results |
| | A1 PCB Analytical Results |
| | A2 Mercury Analytical Results |

TECHNICAL MEMORANDUM PHASE II WETLAND INVESTIGATION

**AMERICAN CHEMICAL SERVICE, INC.
NPL SITE
GRIFFITH, INDIANA**

INTRODUCTION

This Technical Memorandum presents the results and conclusions from the Phase II Wetland Investigation conducted at the ACS NPL Site in Griffith, Indiana on November 18 through 21, 1996. The Phase II investigation was conducted in accordance with the U.S. EPA approved *Phase II Wetlands Sampling Pre-design Work Plan Addendum* (Montgomery Watson November 6, 1996). The investigation consisted of the collection of sediment samples at three depths from 66 pre-determined locations. Selected samples were analyzed for PCB and mercury.

The purpose of the Phase II Wetland Investigation was to further define the extent of PCB and mercury contamination in the wetlands at the ACS Site identified in the report *Wetland Investigation Technical Memorandum* (Montgomery Watson July 25, 1996); referred to in this Report as the Phase I Wetland Investigation. The Phase II Wetland Investigation was performed to better determine the extent of PCB and/or mercury contamination within the wetlands west of the ACS Site. This information was gathered in order to decide whether toxicity testing and/or bioaccumulation studies should be performed. In order to determine whether such studies were necessary, surface area estimates of PCB affected sediments were compared to the size of the home range of the receptor the U.S. EPA selected as of potential concern in the wetlands (i.e., the mink). The premise for further defining the extent of PCB contamination was that it was considered reasonable to assume that below a given threshold area of PCB impacted sediments, no toxicity testing or biological studies would be necessary.

BACKGROUND

The Phase I sampling results indicated that PCBs had migrated into the wetland area west of the ACS Site. PCBs were detected in 19 of the 22 sediment samples collected in the Phase I Investigation. Except for the three locations discussed below (SD21, SD33, and SD35), the total PCB concentrations ranged from less than 1 mg/kg to approximately 6

mg/kg. See the July 25, 1996 Wetland Investigation Technical Memorandum for more detail regarding the results of the Phase I sampling.

The Phase II investigation was proposed to better define the extent of PCB affected sediments along a drainage channel extending through the wetland from the western boundary of the ACS facility. The three sediment samples (SD21, SD33, and SD35) with PCB concentrations above the 10 mg/kg cleanup objective for soils specified in the Record of Decision (ROD) for the Site were located along this drainage channel. The PCB results for these three sediment samples are summarized below.

| <u>Sample ID</u> | <u>Total PCBs</u> |
|------------------|-------------------|
| SD21 | 13.1 mg/kg |
| SD35 | 17 mg/kg |
| SD33 | 125 mg/kg |

The distance from SD21 to SD33 is approximately 500 feet. Three other samples, SD31, SD34, and SD18 were collected along the same general channel, but showed lower PCB concentrations.

| <u>Sample ID</u> | <u>Total PCBs</u> |
|------------------|-----------------------|
| SD31 | 0.9 mg/kg |
| SD34 | 0.027 mg/kg |
| SD18 | below detection limit |

An aerial photograph from 1980 indicated that the channel within the wetland cut from near the ACS facility fence (Sediment Sample Location SD22) west into the wetland to its intersection with a north-south drainage ditch in the wetland in the vicinity of surface water sampling location SW12. The channel was identified in the field during the Phase I sampling at several locations. While PCBs are not currently handled or stored on site, it appears that in the past, surface water runoff from the Site flowed along this channel. This water may have transported PCBs or sediments containing PCBs.

The Phase II Investigation was conducted to better define the extent of PCB and mercury contaminated sediments within and along the drainage channel. The following section describes the sampling strategy and methods used during the Phase II Investigation.

PHASE II SEDIMENT SAMPLING AND ANALYSIS

Phase II wetland sediment sampling was performed between November 18 and November 21, 1996. Site conditions at the time included temperatures of 15 to 45 °F, with rain and snow. Surface water in the wetlands ranged from approximately 0 - 20 inches deep. Wetlands vegetation (i.e., grasses and cattails) was dormant and remained upright. Grasses ranged from approximately 0.5 - 3 feet in height, while cattails ranged from approximately

4 - 7 feet in height. As such, the identification of the topographic expression of the drainage ditch could not be made visually. An all terrain vehicle (ATV) was used to knock down cattails in a grid pattern. These paths were then walked, and the channel identified by surface water depth. In general, the channel averaged approximately 1 ft deeper than the surrounding area. Stakes marking the position of SD33, SW12 and SW13 from the Phase I sampling were located, confirming the identification of the channel.

Field procedures used to locate sampling points in the wetland, transects, and south of the culvert are discussed in this Section. Sampling locations are shown on Figure 1.

Wetland Grid Sampling Locations

Following identification of the channel, the grid system was established. Based on Figure 2 of the Work Plan, grid lines were labeled with letters A through E running south to north, and numbers 1 through 11 running west to east. The grid intersects were then marked beginning with the known location of Phase 1 sediment sample SD33, corresponding to position C9 in the grid. Using a measuring tape, 50 ft intervals were marked out along the channel (positions C1 through C11). Once the central axis of the grid was established along the channel, points were measured out perpendicular to the channel at 50 ft intervals. Note that sample points were located to the side of the paths made by the ATV, to avoid soils potentially disturbed by the wheels of the ATV.

Because the channel curves northwest at grid position C8, sampling points south of the channel diverged, creating a gap between positions A7 and A8. An additional sample was collected between these points, identified as position A8-1.

Transect Sampling Locations

Four transects were proposed. Three of the transects (T1, T2, and T3) were selected to be perpendicular to the flow of the channel. Transect (T4) is arrayed around Phase I sediment sample location SD21, which was incorrectly shown on figures in the Phase I Technical Memorandum and the Phase II Work Plan as north of the channel. During field activities, the position of SD21 was re-surveyed and confirmed to be located in the channel based on the presence of the original marker.

Because of clearing activities conducted in preparation of installing the perimeter groundwater containment system (PGCS) extraction trench in the vicinity of the transects T2 and T3, these locations were confirmed by the survey team prior to sampling. It should be noted that surface vegetation had been removed from the vicinity of the transects T2 and T3 and the surface soils in this area had been disturbed. Samples were then collected at 25 foot intervals along each transect, identified from south to north as A through E.

Sampling Locations South of Culvert Outfall

Three sampling locations were selected south of the culvert outfall at the far southwest side of the sampling area. The sample location are as follows:

- "Culvert Outfall", was chosen in the vicinity of the culvert, to characterize sediment downstream from the outfall.
- "Culvert Downstream" was located 50 ft down-gradient (i.e., south) of the outfall, to characterize sediment transported from the vicinity of the outfall.
- "Culvert Upstream 1" was located 50 ft up-gradient (i.e., east) of the outfall, to characterize the contribution of the Griffith Landfill dewatering activities to sediment composition.

At the request of the U.S. EPA's representative, a fourth location was added 50 ft further up-gradient (i.e., east) of the outfall, identified as "Culvert Upstream 2". The purpose of adding this fourth sampling point was to respond to the concern of the U.S. EPA oversight personnel that "Culvert Upstream 1" might not have been located sufficiently up-gradient of the outfall pool, and thus would not clearly identify landfill contributions to the sediment composition.

Sampling Location Survey

After sampling points were identified, the positions were surveyed within 0.1 foot of the horizontal reference grid set up for the Site. A summary of the survey coordinates is presented in Table 1.

Sediment Sampling Procedure

The sediment samples were collected according to Montgomery Watson's sediment sampling Standard Operation Procedure (SOP), which was approved by the U.S. EPA for the Phase I sediment sampling in May 1996. The sampling device presented in the SOP (a sample coring device with an opening running the length of the tube) proved ineffective in the standing surface water of the wetland. The organic and sand sediments washed out of the open side of the sampling device when brought up through the standing surface water. This problem was resolved by using a standard 2 inch ID split-spoon sampler equipped with a catcher to prevent loss of the sample. The split spoon was mounted on a 5 ft section of drill rod and driven into the sediments using a slam bar. This technique successfully allowed a 2 ft core of sample to be removed in a single operation. The transect samples, located in areas without standing water, were collected without difficulty using the open side coring device.

At each intersection of the grid, each point on the transects, and at the locations south of the culvert, samples were collected from three depth intervals (0 - 6 inch, 6 - 12 inch, and 12 - 18 inch). In the wetland grid sample locations, the surface (located up to 2 feet below the surface water) was covered by successive layers of vegetation, representing each year's growth of cattails. This layer varied in thickness from approximately 2 inches to 10 inches,

and proved to be highly compressible, making accurate measurement difficult. Beneath the organic layer was a layer of dark brown-gray to black, fine to medium sand approximately 4 to 8 inches thick, underlain by a light brown fine to medium sand. These three layers (organic matter, dark colored sand, and light colored sand) were observed throughout the wetland area. A sampling interval based strictly on depth would not account for the unpredictable thickness of the organic layer, resulting in samples containing parts of each of these distinct layers. With concurrence of the U.S. EPA representative, it was decided that the 0 - 6 inch sample (identified for convenience as 0.5 ft) would include the organic layer, the 6 - 12 inch layer (identified for convenience as 1.0 ft) would include the dark sand layer, and the 12 - 18 inch layer (identified for convenience as 1.5 ft) would include the light colored sand. Samples from the transects composed of dark black silty sands, were collected based strictly on depth from the ground surface. Culvert samples were composed primarily of gray-brown sands, without an organic layer, and were sampled based strictly on depth interval.

Samples were placed in wide-mouth glass containers with Teflon lined lids, labeled, tagged, and shipped on ice and under custody to IEA Laboratories for analysis.

Phased Analytical Program

A total of 231 sediment samples were collected, which included duplicate sediment samples. The phased analytical program was designed to selectively analyze as many of these samples as necessary to complete the identification of sediment areas with PCB concentrations greater than 1 mg/kg. Table 2 presents a summary of all samples collected and the total PCB results for samples selected for analysis during each round.

The selection of the twenty-eight (28) Round 1 samples shown in Table 2 was determined in concurrence with the U.S. EPA prior to sampling activities. Round 1 samples were generally from the 0.5 ft layer, with the exception of samples at locations previously sampled in Phase I (i.e., SDC9, SDT3 (C), and SDT4 (C)), where the 1.0 ft interval was selected. Each of the Round 1 samples was analyzed for PCBs, and at the request of the U.S. EPA, for mercury.

PCB results for each sample, reported by the laboratory in $\mu\text{g}/\text{kg}$, were totaled and converted to units of mg/kg or ppm (i.e., $\mu\text{g}/\text{kg} \times 1,000$). If the total PCB concentration was greater than 1 mg/kg, the sample location in each direction and the interval directly beneath that sample were selected for analysis. Table 3 lists the samples by round, and the logic for the phased analytical approach.

It should be noted that, due to a laboratory oversight, samples from SDD5, intervals 0-0.5 feet and 0.5-1 feet were extracted but not analyzed, although they should have been because of SDC5. However, results from SDC4, SDD3, and SDD6, which are near SDD5, indicated no PCBs above 1 mg/kg.

Based on the Round 1 results, it was determined that an additional 119 sediment samples might need to be analyzed for PCBs of the total 231 samples collected. The Pesticide/PCB analytical method technical hold time requires extraction within 14 days after sampling, and analysis of the extract within 40 days of completing the extraction procedure. In order to meet extraction holding times while waiting for analytical results, it was decided to extract each of the additional sediment samples that could potentially require analysis based on the Round 1 results. The extracts could then be held for 40 days prior to analysis.

As a result of the selection process, 37 of the 119 samples extracted were analyzed during Round 2. Based on the Round 2 results, 14 additional samples were analyzed in Round 3. During Round 4, an additional 4 sediment samples were analyzed for PCBs. Including the first round, a total of eighty-three (83) sediment samples were analyzed for PCBs. A discussion of the analytical results from all four rounds is presented in the following section.

Data Validation and Reduction

Preliminary data results were faxed by IEA to Montgomery Watson and tabulated. These preliminary results were used to identify samples for subsequent analytical rounds. (Copies of the preliminary data for each of rounds 1, 2, and 3 were faxed to the U.S. EPA as soon as they were available from the laboratory). Final data packages were subsequently forwarded to Montgomery Watson for data validation and reduction.

The PCB laboratory analysis was performed according to the methodologies presented in the CLP SOW. Data validation was performed in accordance with *the National Functional Guidelines for Organic Data Review* (February 1994). Based on the data validation procedure, the results are acceptable for use in site evaluation with the following comments:

Holdtimes were met, with the exception of sample SDT4(A) 0.5 ft, which exceeded the extraction holdtime; and samples SDC5-1.5 ft, SDC7-1.5 ft, SDC11-1.5 ft and SDD11-1.0 ft, which exceeded analysis holdtimes. Results for these samples have been qualified as estimated (J or UJ). It should be noted that the technical holdtimes are based on pesticides as well as PCBs, which are significantly more stable and resistant to degradation than the pesticide compounds. Although the results for samples exceeding holdtimes have been qualified as estimated, it is unlikely significant degradation of the PCBs would have occurred.

Laboratory blanks were generally clean, without detects of PCBs at concentrations greater than the CRQL. Only one sample was affected by positive blank results, and in that sample the reported concentration exceeded the blank results by two magnitudes, and did not require qualification.

Over all, the sample chromatography was acceptable, given the matrix interferences present in the samples. Matrix interferences resulted in many surrogate percent recoveries being outside the QC limits. In addition, interferences may have masked

primary identification peaks, resulting in a percent difference criteria between the two GC column quantitations exceeding 25% (laboratory qualifier P). As required by the method, the lower concentration (presumably not masked by interferences) was reported. In all cases reported detection limits were either less than 1 mg/kg, or the sample concentration exceeded 1 mg/kg.

Mercury analysis was performed on all Round 1 samples by IEA Laboratories, and validated according to the *National Functional Guidelines for Inorganic Data Review* (February 1994). All mercury results are acceptable for use in site evaluation. Some samples have been qualified as estimated (J or UJ) due to a slightly elevated spike recovery (130%, with QC limits of 75 - 125%).

Results of all sample analyses are presented in Table 4. This table presents reported detection limits, concentrations, laboratory qualifiers and data validation qualifiers for samples analyzed in the Phase II Investigation.

Discussion of PCB Results

In general, sediment samples with PCB concentrations exceeding 1 mg/kg in the wetland grid were limited to the immediate vicinity of the drainage channel:

| <u>Sample ID</u> | <u>Depth</u> | <u>PCBs mg/kg</u> |
|------------------|--------------|--------------------------------------|
| APD-SDC9 | 0.5 | SD33=126 (Phase I sampling location) |
| APD-SDC8 | 0.5 | 73 |
| APD-SDC7 Dup | 0.5 | 40 |
| APD-SDC7 | 1.0 | 30.3 |
| APD-SDB9 | 0.5 | 14.1 |
| APD-SDC5 | 1.0 | 3.6 |
| APD-SDC11 | 0.5 | 2.52 |
| APD-SDD11 | 0.5 | 2.16 |
| APD-SDC6 | 0.5 | 1.89 |
| APD-SDB5 | 0.5 | 1.51 |
| APD-SDC11 | 1.0 | 1.45 |
| APD-SDC5 | 0.5 | 1.42 |
| APD-SDC7 | 0.5 | 1.23 |
| APD-SDB10 | 0.5 | 1.2 |

Refer to Figure 2 for a graphical presentation of the total PCB results and Table 4 for a tabular presentation. Results for Phase 1 samples matching grid locations are included for reference. Wetland grid samples with total PCB concentrations exceeding 1 mg/kg were primarily limited to the 0.5 ft interval. Recall that this interval was composed primarily of organic material. At locations C11, C7 and C5, near the upgradient end of the channel, total PCB concentrations exceeding 1 mg/kg were detected in the 1.0 ft interval. Recall that this interval was composed of the dark colored, fine to medium sand. No samples analyzed from the 1.5 ft interval (light brown, fine to medium sand) contained total PCBs at concentrations exceeding 1 mg/kg.

The following transect samples contained total PCBs at concentrations greater than 1 mg/kg:

| <u>Sample ID</u> | <u>Depth</u> | <u>PCBs (mg/kg)</u> |
|------------------|--------------|-------------------------------------|
| APD-SD T1 (B) | 0.5 | 10.2 |
| APD-SD T1 (C) | 0.5 | 14.4 |
| APD-SD T1 (D) | 0.5 | 5.21 |
| APD-SD T2 (B) | 0.5 | 7.23 |
| APD-SD T2 (C) | 0.5 | 359 |
| APD-SD T2 (C) | 1.0 | 4.76 |
| APD-SD T2 (C) | 1.5 | 3.02 |
| APD-SD T2 (D) | 0.5 | 29.1 |
| APD-SD T2 (D) | 1.0 | 9.4 |
| APD-SD T3 (A) | 0.5 | 11.6 |
| APD-SD T3 (B) | 0.5 | 234 |
| APD-SD T3 (B) | 1.0 | 27 |
| APD-SD T3 (B) | 1.5 | 4.0 |
| APD-SD T3 (C) | 0.5 | SD35=17 (Phase I sampling location) |
| APD-SD T3 (D) | 0.5 | 15.7 |
| APD-SD T3 (E) | 0.5 | 1.04 |
| APD-SD T4 (C) | 0.5 | SD21=13 (Phase I sampling location) |
| APD-SD T4 (C) | 1.0 | 60 |
| APD-SD T4 (C) | 1.5 | 24.5 |

Note that in transect T1, PCBs appear to be limited to 0.5 ft interval, and in transect T4 PCBs are limited to the center sample point (SDT4 (C)) in samples to depth. T1 is located in a grassy area and was not disturbed. T4 is located farthest upgradient in a confined stream bed. By contrast, transects T2 and T3, located in areas of disturbed vegetation, exhibit more widely distributed PCB concentrations.

Culvert samples from the 0.5 ft interval were analyzed for PCBs. Only the culvert outfall 0.5 ft sample had total PCBs greater than 1 mg/kg (2.08 mg/kg). PCBs were not detected in the sample location 50 feet downstream from the culvert. PCBs were not detected in the fourth Culvert location requested by the U.S. EPA oversight personnel.

Extent of Detected PCBs in Sediments

The Phase I and Phase II sampling results were combined to develop a series of isoconcentration maps delineating the horizontal and vertical extent of PCB concentrations in sediments above specific limits. A map was developed for each of three sample depths: 0 to 6 in, 6 to 12 in, and 12 to 18 in (refer to Figures 2, 3, and 4). Two isoconcentration lines have been plotted on each map, a 1 mg/kg contour line and a 10 mg/kg contour line. The surface area associated with each contour was estimated by digitizing the area within each contour. The following is a summary of the surface area estimates.

| <u>PCB Limit</u> | <u>Depth Interval</u> | | |
|------------------|-----------------------|------------------|------------------|
| | <u>0 - 0.5</u> | <u>0.5 - 1.0</u> | <u>1.0 - 1.5</u> |
| 1 mg/kg | 1.3 acres | 0.3 acres | 0.08 acres |
| 10 mg/kg | 0.5 acres | 0.06 acres | 0.01 acres |

Figures 2, 3 and 4, along with the area estimates show that the PCBs are concentrated in a narrow zone along the drainage pathway west of the ACS facility. Within the surficial wetlands sediments, approximately 1.3 acres contains PCB concentrations above 1 ppm. Of that area, approximately 0.5 acre contains sediment with PCB concentrations above 10 ppm. The highest PCB concentrations are located within the channel. The PCB affected sediments primarily occur in the surficial sediment layer (0 to 6 in), with limited detections at the 12 to 18 in interval.

The surface area estimates from each depth interval were used to estimate the volume of PCB affected sediments. The total volume of sediments with PCB concentrations above 1 ppm is approximately 1,320 cubic yards. Of that volume, approximately 460 cubic yards contains PCB concentrations above 10 ppm.

Determination of a Threshold Area of PCB Affected Sediments

One objective of the Phase I and II wetlands investigation was to determine whether the extent of PCB impacted sediments was large enough to warrant performing toxicity/bioaccumulation studies. Based on this objective it was necessary to estimate what would be a biologically significant area of PCB affected sediments. The following discusses the rationale for developing an estimate of this area.

The U.S. EPA considered the mink to be the receptor of concern within the ecological risk assessment for the Site, based on the potential for bioaccumulation to occur through its food chain within the wetland. Mink are carnivores which feed primarily on small animals, such as muskrats, waterfowl, voles and mice. Therefore, the primary concern is for these prey species to become contaminated with PCBs, which could be passed on to the mink. The objective was to evaluate what percentage of the home range of a mink is affected by PCBs in the wetland in the vicinity of the ACS Site. The home range is considered the size of the area that a mink would need to roam and be able to acquire enough food to survive. It is worth noting that, to the best of our knowledge, mink have not been observed at or near the Site.

Estimates for the home range size of the mink are provided in the Wildlife Exposure Factors Handbook (EPA 1993). Estimates of mink home ranges vary depending upon the particular habitat where the mink reside. Within riverine environments the home range are much smaller than for wetland environments, because of the relative difference in abundance of food. For this reason, it was considered most accurate to select an estimate of the home range for mink at the Site that best corresponds to the wetland environment. The smallest home range estimate for the mink (i.e., 640 acres), for an environment similar to the wetlands environment, was used as a conservative estimate of the home range for the mink. This value corresponds to the lowest estimate of the mink home range in the Prairie Pothole habitat of North Dakota developed by Eagle and cited in Allen (1986).

To estimate a biologically significant area of PCB affected sediment, a small fraction of the minks home range was selected. It was considered for purposes of this assessment that if 1 percent or less of the mink's home range was contaminated above a selected PCB

cleanup objective, that this could be considered an insignificant fraction of its home range. This is because the amount of prey potentially consumed from this area would be too small to affect the health of the mink population. In other words, if the size of the PCB affected area was less than one percent of the mink home range, toxicity or bioaccumulation studies would not need to be performed because significant health risks to the mink population would not be present. One percent of the minks home range equates to 6.4 acres, or approximately 280,000 ft².

On the basis of the Phase I and II sediment sampling, 0.2 percent of the home range for a mink is affected by PCBs at a level of 1 ppm or above. In addition, 0.08 percent of the home range for a mink is affected by PCBs at a level of 10 ppm or above. Considering that these percentages are well below the threshold limit of 1 percent, there does not appear to be a strong need to conduct toxicity testing, and/or bioaccumulation studies for the ACS Site.

Discussion of Mercury Results

During the Phase II investigation each of the 28 Round 1 surficial sediment samples were analyzed for mercury as requested by the EPA (refer to Table 4). The following Round 1 samples contained detects of mercury at concentrations greater than the reported instrument detection limit (IDL) of approximately 0.1 mg/kg:

| <u>Sample ID</u> | <u>Depth</u> | <u>Mercury mg/kg</u> |
|------------------|--------------|----------------------|
| APD-SDB5 | 0.5 | 0.28 |
| APD-SDB9 | 0.5 | 0.28 |
| APD-SDC8 | 0.5 | 0.60 |
| APD-SDT1 (B) | 0.5 | 0.44 |
| APD-SDT1 (C) | 0.5 | 1.4 |
| APD-SDT1 (D) | 0.5 | 2.6 |
| APD-SDT2 (C) | 0.5 | 6.1 |
| APD-SDT2 (D) | 0.5 | 1.6 |
| APD-SDT3 (B) | 0.5 | 1.2 |
| APD-SDT3 (D) | 0.5 | 2.5 |
| APD-SDT4 (C) | 0.5 | 0.28 |

Based on the mercury results, the extent of mercury affected sediments appears to be more limited than the PCB affected sediments. Figure 5 provides an areal view of the distribution of mercury sediment sample results. The distribution of the mercury results appeared to coincide with the PCB results, as mercury was detected only at locations where PCBs were detected. The highest mercury concentrations coincided with the highest PCB concentrations, which were located near the eastern end of the wetlands, close to the ACS facility. In addition, with the exception of two sample locations, mercury was detected solely within the area where PCB concentrations were 10 mg/kg or more.

CONCLUSIONS

The objective of the wetland investigation as stated in the Predesign Work Plan was to determine if elevated PCB sediment concentrations are widespread within the wetlands in order to decide whether toxicity testing and/or bioaccumulation studies should be performed. The Phase I sampling event, reported in the *Wetland Investigation Technical Memorandum* (Montgomery Watson July 25, 1996) indicated that there were sediments on Site containing PCB concentrations above 10 ppm, in the wetland west of the ACS Site. However the spacing of the sampling results was not sufficiently close to accurately determine the area or volume of affected sediments. A second phase of wetland sampling was conducted in November 1996 to provide a detailed delineation of the extent and concentration of PCB impacts, so that this determination could be made.

The Phase I and Phase II sampling results have been combined in several maps to provide a series of isoconcentration maps delineating the horizontal and vertical extent of PCB concentrations in sediments. These maps show that the PCBs are concentrated along a narrow zone, parallel to the drainage pathway west of the ACS facility. Three maps have been developed, one for each of the three sample depths: 0 to 6 inches, 6 to 12 inches, and 12 to 18 inches (refer to Figures 2, 3, and 4). Two isoconcentration lines have been plotted on each map, a 1 ppm contour line and a 10 ppm contour line.

Approximately 1.3 acres are estimated to contain PCB concentrations above 1 ppm. Of that area, approximately 0.5 acres are estimated to contain sediment with PCB concentrations above 10 ppm. The total volume of sediments with PCB concentrations above 1 ppm is approximately 1,320 cubic yards. Of that volume, approximately 460 cubic yards of sediment is estimated to contain PCB concentrations above 10 ppm. Based upon these results, the surficial extent of PCB affected wetlands sediment does not appear to be large enough to warrant toxicity or bioaccumulation studies. A discussion of the rationale for this conclusion follows.

The U.S. EPA considered the mink the receptor of concern within the ecological risk assessment for the Site, based on the potential for bioaccumulation to occur through its food chain within the wetland. Mink are carnivores which feed primarily on small animals, such as muskrats, waterfowl, voles and mice. Therefore, the primary concern is for these prey species to become contaminated with PCBs, which could be passed on to the mink. The objective was to evaluate what percentage of the home range of a mink is affected by PCBs in the wetland in the vicinity of the ACS Site. The home range is considered the size of the area that a mink would need to roam to be able acquire enough food to survive.

Estimates for the home range size of the mink are provided in the Wildlife Exposure Factors Handbook (EPA 1993). The smallest home range estimate for the mink (i.e., 640 acres), for an environment similar to the wetlands environment, was used as a conservative estimate of the home range for the mink. It was considered for purposes of this assessment that if 1 percent or less of the mink's home range was contaminated above a selected PCB cleanup objective, that this could be considered an insignificant fraction of its home range,

which would not require toxicity or bioaccumulation studies to be performed. One percent of the minks home range equates to 6.4 acres, or approximately 280,000 ft². On the basis of the Phase I and II sediment sampling, less than one percent of the typical home range for a mink is affected by PCBs at a level of 1 ppm or above. Therefore, there is no need to conduct toxicity testing, and/or bioaccumulation studies for the ACS Site.

JAH/djw/MWK/PJV
C:\COPY\WL-SED2.DOC



Table 1
November 1996 Wetlands Sample Location Coordinates
American Chemical Services Inc.
NPL Site
Griffith, Indiana

| Sampling Point | East | North |
|-------------------|------|-------|
| A1 | 4128 | 7300 |
| A2 | 4174 | 7279 |
| A3 | 4226 | 7254 |
| A4 | 4275 | 7238 |
| A5 | 4320 | 7219 |
| A6 | 4364 | 7192 |
| A7 | 4410 | 7169 |
| A8-1 | 4455 | 7157 |
| A8 | 4497 | 7144 |
| A9 | 4546 | 7128 |
| A10 | 4584 | 7113 |
| B1 | 4152 | 7344 |
| B2 | 4199 | 7326 |
| B3 | 4248 | 7299 |
| B4 | 4296 | 7283 |
| B5 | 4337 | 7264 |
| B6 | 4389 | 7236 |
| B7 | 4431 | 7214 |
| B8 | 4495 | 7182 |
| B9 | 4544 | 7178 |
| B10 | 4588 | 7162 |
| B11 | 4644 | 7165 |
| C1 | 4177 | 7386 |
| C2 | 4219 | 7363 |
| C3 | 4268 | 7344 |
| C4 | 4315 | 7327 |
| C5 | 4362 | 7306 |
| C6 | 4407 | 7281 |
| C7 | 4452 | 7260 |
| C8 | 4488 | 7229 |
| C9 | 4543 | 7225 |
| C10 | 4595 | 7211 |
| C11 | 4647 | 7214 |

| Sampling Point | East | North |
|-------------------|------|-------|
| D1 | 4200 | 7432 |
| D2 | 4233 | 7409 |
| D3 | 4280 | 7392 |
| D4 | 4333 | 7377 |
| D5 | 4379 | 7354 |
| D6 | 4423 | 7327 |
| D7 | 4469 | 7309 |
| D8 | 4507 | 7275 |
| D9 | 4560 | 7273 |
| D10 | 4607 | 7269 |
| D11 | 4650 | 7265 |
| E6 | 4444 | 7373 |
| E7 | 4491 | 7352 |
| E8 | 4525 | 7322 |
| T1 (A) | 4696 | 7188 |
| T1 (B) | 4701 | 7211 |
| T1 (C) | 4709 | 7237 |
| T1 (D) | 4713 | 7262 |
| T1 (E) | 4719 | 7287 |
| T2 (A) | 4844 | 7134 |
| T2 (B) | 4840 | 7164 |
| T2 (C) | 4835 | 7190 |
| T2 (D) | 4831 | 7215 |
| T2 (E) | 4825 | 7238 |
| T3 (A) | 4887 | 7136 |
| T3 (B) | 4894 | 7161 |
| T3 (C) | 4900 | 7186 |
| T3 (D) | 4906 | 7212 |
| T3 (E) | 4913 | 7236 |
| T4 (A) | 4994 | 7126 |
| T4 (B) | 5013 | 7145 |
| T4 (C) | 5027 | 7162 |
| T4 (D) | 5040 | 7177 |
| T4 (E) | 5060 | 7192 |

Table 2
Summary of Wetland Sediment Phased Sample Analysis
American Chemical Service, Inc. NPL Site
Griffith Indiana

| Sample ID | Depth | Sample Date | Total PCBs (mg/kg) | | | | |
|--------------|-------|-------------|--------------------|---------|---------|---------|------------|
| | | | Round 1 | Round 2 | Round 3 | Round 4 | All Rounds |
| APD-SDA1 | 0.5 | 11/21/96 | | E | | | E |
| APD-SDA1 | 1.0 | | | E | | | E |
| APD-SDA1 | 1.5 | | | E | | | E |
| APD-SDA2 | 0.5 | 11/21/96 | | E | 0.223 | | 0.223 |
| APD-SDA2 | 1.0 | | | E | | | E |
| APD-SDA2 | 1.5 | | | E | | | E |
| APD-SDA3 | 0.5 | 11/21/96 | | E | | | E |
| APD-SDA3 | 1.0 | | | E | | | E |
| APD-SDA3 | 1.5 | | | E | | | E |
| APD-SDA4 | 0.5 | 11/21/96 | | E | | | E |
| APD-SDA4 | 1.0 | | | E | | | E |
| APD-SDA4 | 1.5 | | | E | | | E |
| APD-SDA5 | 0.5 | 11/21/96 | | E | 0.75 | | 0.75 |
| APD-SDA5 | 1.0 | | | E | | | E |
| APD-SDA5 | 1.5 | | | E | 0.007 | | 0.007 |
| APD-SDA6 | 0.5 | 11/21/96 | | E | | | E |
| APD-SDA6 | 1.0 | | | E | | | E |
| APD-SDA6 | 1.5 | | | E | | | E |
| APD-SDA7 | 0.5 | 11/21/96 | | E | | | E |
| APD-SDA7 | 1.0 | | | E | | | E |
| APD-SDA7 | 1.5 | | | E | | | E |
| APD-SDA8 | 0.5 | 11/21/96 | | E | | | E |
| APD-SDA8 | 1.0 | | | E | | | E |
| APD-SDA8 | 1.5 | | | E | | | E |
| APD-SDA8 Dup | 0.5 | 11/21/96 | | E | | | E |
| APD-SDA8 Dup | 1.0 | | | E | | | E |
| APD-SDA8 Dup | 1.5 | | | E | | | E |
| APD-SDA8(1) | 0.5 | 11/21/96 | | E | | | E |
| APD-SDA8(1) | 1.0 | | | E | | | E |
| APD-SDA8(1) | 1.5 | | | E | | | E |
| APD-SDA9 | 0.5 | 11/21/96 | | E | 0.367 | | 0.367 |
| APD-SDA9 | 1.0 | | | E | | | E |
| APD-SDA9 | 1.5 | | | E | | | E |
| APD-SDA10 | 0.5 | 11/21/96 | | E | | ND | ND |
| APD-SDA10 | 1.0 | | | E | | | E |
| APD-SDA10 | 1.5 | | | E | | | E |
| APD-SDB1 | 0.5 | 11/20/96 | 0.056 | | | | 0.056 |
| APD-SDB1 | 1.0 | | | | | | |
| APD-SDB1 | 1.5 | | | | | | |
| APD-SDB1 Dup | 0.5 | 11/21/96 | | E | ND | | ND |
| APD-SDB1 Dup | 1.0 | | | | | | |
| APD-SDB1 Dup | 1.5 | | | | | | |

Table 2
Summary of Wetland Sediment Phased Sample Analysis
American Chemical Service, Inc. NPL Site
Griffith Indiana

| Sample ID | Depth | Sample Date | Total PCBs (mg/kg) | | | | |
|-----------|-------|-------------|--------------------|---------|---------|---------|------------|
| | | | Round 1 | Round 2 | Round 3 | Round 4 | All Rounds |
| APD-SDB2 | 0.5 | 11/21/96 | | E | | | E |
| APD-SDB2 | 1.0 | | | E | | | E |
| APD-SDB2 | 1.5 | | | E | | | E |
| APD-SDB3 | 0.5 | 11/21/96 | | E | | | E |
| APD-SDB3 | 1.0 | | | E | | | E |
| APD-SDB3 | 1.5 | | | E | | | E |
| APD-SDB4 | 0.5 | 11/21/96 | | E | 0.106 | | 0.106 |
| APD-SDB4 | 1.0 | | | E | | | E |
| APD-SDB4 | 1.5 | | | E | | | E |
| APD-SDB5 | 0.5 | 11/20/96 | 1.51 | | | | 1.51 |
| APD-SDB5 | 1.0 | | | E | ND | | ND |
| APD-SDB5 | 1.5 | | | E | | | E |
| APD-SDB6 | 0.5 | 11/21/96 | | E | 0.72 | | 0.72 |
| APD-SDB6 | 1.0 | | | E | | | E |
| APD-SDB6 | 1.5 | | | E | | | E |
| APD-SDB7 | 0.5 | 11/21/96 | | E | | 0.9 | 0.9 |
| APD-SDB7 | 1.0 | | | E | | | E |
| APD-SDB7 | 1.5 | | | E | | | E |
| APD-SDB8 | 0.5 | 11/21/96 | | E | 0.412 | | 0.412 |
| APD-SDB8 | 1.0 | | | E | | | E |
| APD-SDB8 | 1.5 | | | E | | | E |
| APD-SDB9 | 0.5 | 11/20/96 | 14.1 | | | | 14.1 |
| APD-SDB9 | 1.0 | | | E | 0.068 | | 0.068 |
| APD-SDB9 | 1.5 | | | E | | | E |
| APD-SDB10 | 0.5 | 11/21/96 | | E | 1.2 | | 1.2 |
| APD-SDB10 | 1.0 | | | E | | 0.18 | 0.18 |
| APD-SDB10 | 1.5 | | | E | | | E |
| APD-SDB11 | 0.5 | 11/21/96 | | E | | 0.254 | 0.254 |
| APD-SDB11 | 1.0 | | | E | | | E |
| APD-SDB11 | 1.5 | | | E | | | E |
| APD-SDC1 | 0.5 | 11/21/96 | | | | | |
| APD-SDC1 | 1.0 | | | | | | |
| APD-SDC1 | 1.5 | | | | | | |
| APD-SDC2 | 0.5 | 11/20/96 | 0.21 | | | | 0.211 |
| APD-SDC2 | 1.0 | | | | | | |
| APD-SDC2 | 1.5 | | | | | | |
| APD-SDC3 | 0.5 | 11/21/96 | | | | | |
| APD-SDC3 | 1.0 | | | | | | |
| APD-SDC3 | 1.5 | | | | | | |
| APD-SDC4 | 0.5 | 11/20/96 | 0.432 | | | | 0.432 |
| APD-SDC4 | 1.0 | | | | | | |
| APD-SDC4 | 1.5 | | | | | | |

Table 2
Summary of Wetland Sediment Phased Sample Analysis
American Chemical Service, Inc. NPL Site
Griffith Indiana

| Sample ID | Depth | Sample Date | Total PCBs (mg/kg) | | | | |
|--------------|-------|-------------|--------------------|---------|---------|---------|------------|
| | | | Round 1 | Round 2 | Round 3 | Round 4 | All Rounds |
| APD-SDC5 | 0.5 | 11/21/96 | | E 1.42 | | | 1.42 |
| APD-SDC5 | 1.0 | | | E | 3.6 | | 3.6 |
| APD-SDC5 | 1.5 | | | E | | ND | ND |
| APD-SDC6 | 0.5 | 11/20/96 | 1.89 | | | | 1.89 |
| APD-SDC6 | 1.0 | | | E ND | | | ND |
| APD-SDC6 | 1.5 | | | E | | | E |
| APD-SDC7 | 0.5 | 11/21/96 | | E 1.23 | | | 1.23 |
| APD-SDC7 | 1.0 | | | E | 30.3 | | 30.3 |
| APD-SDC7 | 1.5 | | | E | | ND | ND |
| APD-SDC7 Dup | 0.5 | 11/21/96 | | E 40 | | | 40 |
| APD-SDC7 Dup | 1.0 | | | E | | | E |
| APD-SDC7 Dup | 1.5 | | | E | | | E |
| APD-SDC8 | 0.5 | 11/20/96 | 73 | | | | 73 |
| APD-SDC8 | 1.0 | | | E 0.12 | | | 0.12 |
| APD-SDC8 | 1.5 | | | E | | | E |
| APD-SDC9 | 0.5 | 11/20/96 | SD33=126 | | | | SD33=126 |
| APD-SDC9 | 1.0 | | 0.093 | | | | 0.093 |
| APD-SDC9 | 1.5 | | | | | | |
| APD-SDC10 | 0.5 | 11/20/96 | 0.7 | | | | 0.7 |
| APD-SDC10 | 1.0 | | | E 0.144 | | | 0.144 |
| APD-SDC10 | 1.5 | | | E | | | E |
| APD-SDC11 | 0.5 | 11/21/96 | | E 2.52 | | | 2.52 |
| APD-SDC11 | 1.0 | | | E | 1.45 | | 1.45 |
| APD-SDC11 | 1.5 | | | E | | 0.056 | 0.056 |
| APD-SDD1 | 0.5 | 11/20/96 | | | | | |
| APD-SDD1 | 1.0 | | | | | | |
| APD-SDD1 | 1.5 | | | | | | |
| APD-SDD1 Dup | 0.5 | 11/20/96 | | | | | |
| APD-SDD1 Dup | 1.0 | | | | | | |
| APD-SDD1 Dup | 1.5 | | | | | | |
| APD-SDD2 | 0.5 | 11/20/96 | | | | | |
| APD-SDD2 | 1.0 | | | | | | |
| APD-SDD2 | 1.5 | | | | | | |
| APD-SDD3 | 0.5 | 11/20/96 | 0.319 | | | | 0.319 |
| APD-SDD3 | 1.0 | | | | | | |
| APD-SDD3 | 1.5 | | | | | | |
| APD-SDD4 | 0.5 | 11/20/96 | | | | | |
| APD-SDD4 | 1.0 | | | | | | |
| APD-SDD4 | 1.5 | | | | | | |
| APD-SDD5 | 0.5 | 11/20/96 | | E | | | E |
| APD-SDD5 | 1.0 | | | E | | | E |
| APD-SDD5 | 1.5 | | | E | | | E |

Table 2
Summary of Wetland Sediment Phased Sample Analysis
American Chemical Service, Inc. NPL Site
Griffith Indiana

| Sample ID | Depth | Sample Date | Total PCBs (mg/kg) | | | | |
|---------------|-------|-------------|--------------------|---------|---------|---------|------------|
| | | | Round 1 | Round 2 | Round 3 | Round 4 | All Rounds |
| APD-SDD6 | 0.5 | 11/20/96 | | E | ND | | ND |
| APD-SDD6 | 1.0 | | | E | | | E |
| APD-SDD6 | 1.5 | | | E | | | E |
| APD-SDD7 | 0.5 | 11/20/96 | 0.65 | | | | 0.648 |
| APD-SDD7 | 1.0 | | | | | | |
| APD-SDD7 | 1.5 | | | | | | |
| APD-SDD8 | 0.5 | 11/20/96 | | E | 0.044 | | 0.044 |
| APD-SDD8 | 1.0 | | | E | | | E |
| APD-SDD8 | 1.5 | | | E | | | E |
| APD-SDD9 | 0.5 | 11/20/96 | 0.021 | | | | 0.021 |
| APD-SDD9 | 1.0 | | | | | | |
| APD-SDD9 | 1.5 | | | | | | |
| APD-SDD10 | 0.5 | 11/21/96 | | E | 0.13 | | 0.13 |
| APD-SDD10 | 1.0 | | | E | | | E |
| APD-SDD10 | 1.5 | | | E | | | E |
| APD-SDD11 | 0.5 | 11/21/96 | | E | | 2.16 | 2.16 |
| APD-SDD11 | 1.0 | | | E | | | 0.054 |
| APD-SDD11 | 1.5 | | | E | | | E |
| APD-SDE6 | 0.5 | 11/21/96 | | E | | | E |
| APD-SDE6 | 1.0 | | | E | | | E |
| APD-SDE6 | 1.5 | | | E | | | E |
| APD-SDE6 Dup | 0.5 | 11/21/96 | | E | | | E |
| APD-SDE6 Dup | 1.0 | | | E | | | E |
| APD-SDE6 Dup | 1.5 | | | E | | | E |
| APD-SDE7 | 0.5 | 11/21/96 | | | | | |
| APD-SDE7 | 1.0 | | | | | | |
| APD-SDE7 | 1.5 | | | | | | |
| APD-SDE8 | 0.5 | 11/21/96 | | E | | | E |
| APD-SDE8 | 1.0 | | | E | | | E |
| APD-SDE8 | 1.5 | | | E | | | E |
| APD-SD T1 (A) | 0.5 | 11/21/96 | | E | 0.81 | | 0.81 |
| APD-SD T1 (A) | 1.0 | | | E | | | E |
| APD-SD T1 (A) | 1.5 | | | E | | | E |
| APD-SD T1 (B) | 0.5 | 11/20/96 | 10.2 | | | | 10.2 |
| APD-SD T1 (B) | 1.0 | | | E | 0.063 | | 0.063 |
| APD-SD T1 (B) | 1.5 | | | E | | | E |
| APD-SD T1 (C) | 0.5 | 11/20/96 | 14.4 | | | | 14.4 |
| APD-SD T1 (C) | 1.0 | | | E | 0.461 | | 0.461 |
| APD-SD T1 (C) | 1.5 | | | E | | | E |
| APD-SD T1 (D) | 0.5 | 11/20/96 | 5.21 | | | | 5.21 |
| APD-SD T1 (D) | 1.0 | | | E | 0.198 | | 0.198 |
| APD-SD T1 (D) | 1.5 | | | E | | | E |

Table 2
Summary of Wetland Sediment Phased Sample Analysis
American Chemical Service, Inc. NPL Site
Griffith Indiana

| Sample ID | Depth | Sample Date | Total PCBs (mg/kg) | | | | |
|-------------------|-------|-------------|--------------------|---------|---------|---------|------------|
| | | | Round 1 | Round 2 | Round 3 | Round 4 | All Rounds |
| APD-SD T1 (E) | 0.5 | 11/21/96 | | E 0.237 | | | 0.237 |
| APD-SD T1 (E) | 1.0 | | | E | | | E |
| APD-SD T1 (E) | 1.5 | | | E | | | E |
| APD-SD T2 (A) | 0.5 | 11/20/96 | | E 0.26 | | | 0.26 |
| APD-SD T2 (A) | 1.0 | | | E | 0.0222 | | 0.0222 |
| APD-SD T2 (A) | 1.5 | | | E | | | E |
| APD-SD T2 (B) | 0.5 | 11/21/96 | 7.23 | | | | 7.23 |
| APD-SD T2 (B) | 1.0 | | | E 0.48 | | | 0.48 |
| APD-SD T2 (B) | 1.5 | | | E | | | E |
| APD-SD T2 (C) | 0.5 | 11/20/96 | 359 | | | | 359 |
| APD-SD T2 (C) | 1.0 | | | E 4.76 | | | 4.76 |
| APD-SD T2 (C) | 1.5 | | | E | 3.02 | | 3.02 |
| APD-SD T2 (D) | 0.5 | 11/20/96 | 29 | | | | 29.1 |
| APD-SD T2 (D) | 1.0 | | | E 9.4 | | | 9.4 |
| APD-SD T2 (D) | 1.5 | | | E | 0.96 | | 0.96 |
| APD-SD T2 (D) Dup | 0.5 | 11/21/96 | | E ND | | | ND |
| APD-SD T2 (D) Dup | 1.0 | | | E ND | | | ND |
| APD-SD T2 (D) Dup | 1.5 | | | E | | | E |
| APD-SD T2 (E) | 0.5 | 11/20/96 | | E ND | | | ND |
| APD-SD T2 (E) | 1.0 | | | E | | | E |
| APD-SD T2 (E) | 1.5 | | | E | | | E |
| APD-SD T3 (A) | 0.5 | 11/20/96 | | E 11.60 | | | 11.6 |
| APD-SD T3 (A) | 1.0 | | | E | 0.08 | | 0.08 |
| APD-SD T3 (A) | 1.5 | | | E 0.132 | | | 0.132 |
| APD-SD T3 (B) | 0.5 | 11/20/96 | 234 | | | | 234 |
| APD-SD T3 (B) | 1.0 | | | E 27 | | | 27 |
| APD-SD T3 (B) | 1.5 | | | E | 4 | | 4.0 |
| APD-SD T3 (C) | 0.5 | 11/20/96 | SD35=17 | | | | SD35=17 |
| APD-SD T3 (C) | 1.0 | | 0.22 | | | | 0.223 |
| APD-SD T3 (C) | 1.5 | | | | | | |
| APD-SD T3 (D) | 0.5 | 11/20/96 | 15.7 | | | | 15.7 |
| APD-SD T3 (D) | 1.0 | | | E 0.15 | | | 0.15 |
| APD-SD T3 (D) | 1.5 | | | E | | | E |
| APD-SD T3 (E) | 0.5 | 11/21/96 | | E 1.04 | | | 1.04 |
| APD-SD T3 (E) | 1.0 | | | E | | | E |
| APD-SD T3 (E) | 1.5 | | | E | | | E |
| APD-SD T4 (A) | 0.5 | 11/21/96 | | | ND | | ND |
| APD-SD T4 (A) | 1.0 | | | | | | |
| APD-SD T4 (A) | 1.5 | | | | | | |
| APD-SD T4 (B) | 0.5 | 11/20/96 | 0.15 | | | | 0.154 |
| APD-SD T4 (B) | 1.0 | | | | | | |
| APD-SD T4 (B) | 1.5 | | | | | | |

Table 2
Summary of Wetland Sediment Phased Sample Analysis
American Chemical Service, Inc. NPL Site
Griffith Indiana

| Sample ID | Depth | Sample Date | Total PCBs (mg/kg) | | | | |
|--------------------------|-------|-------------|--------------------|---------|---------|---------|------------|
| | | | Round 1 | Round 2 | Round 3 | Round 4 | All Rounds |
| APP-SD T4 (C) | 0.5 | 11/20/96 | SD21=13 | | | | SD21=13 |
| APP-SD T4 (C) | 1.0 | | 60 | | | | 60 |
| APP-SD T4 (C) | 1.5 | | | E 24.5 | | | 24.5 |
| APP-SD T4 (D) | 0.5 | 11/20/96 | 0.74 | | | | 0.742 |
| APP-SD T4 (D) | 1.0 | | | | | | |
| APP-SD T4 (D) | 1.5 | | | | | | |
| APP-SD T4 (E) | 0.5 | 11/21/96 | | | | | |
| APP-SD T4 (E) | 1.0 | | | | | | |
| APP-SD T4 (E) | 1.5 | | | | | | |
| APP-Culvert Outfall | 0.5 | 11/20/96 | 2.08 | | | | 2.08 |
| APP-Culvert Outfall | 1.0 | | | E 0.028 | | | 0.028 |
| APP-Culvert Outfall | 1.5 | | | E | | | E |
| APP-Culvert Downstream | 0.5 | 11/20/96 | 0.29 | | | | 0.288 |
| APP-Culvert Downstream | 1.0 | | | | | | |
| APP-Culvert Downstream | 1.5 | | | | | | |
| APP-Culvert Upstream (1) | 0.5 | 11/20/96 | 0.099 | | | | 0.099 |
| APP-Culvert Upstream (1) | 1.0 | | | | | | |
| APP-Culvert Upstream (1) | 1.5 | | | | | | |
| APP-Culvert Upstream (2) | 0.5 | 11/20/96 | 0.36 | | | | 0.36 |
| APP-Culvert Upstream (2) | 1.0 | | | | | | |
| APP-Culvert Upstream (2) | 1.5 | | | | | | |

Notes:

This table is a summary of all wetland sediment samples collected on November 20 and 21, 1996 from the ACS Site in Griffith Indiana. A subset of all samples collected was selected for Round 1 analysis. On the basis of the Round 1 results, a second, third and fourth round of analyses were performed to define the extent of PCB affected sediments. This table presents the results of this decision making process.

Round 1 = samples from 0.5' (or 1.0' for C9 & T4(C)) was selected by the U.S. EPA and IDEM. Earlier sediment samples collected at grid points are also included for reference.

Round 2 = Analyze all samples on each side and beneath any Round 1 sample > 1 ppm PCBs. Extract samples farther out to meet reasonable worst case scenario.

Round 3 = Analyze samples identified in Round 2 using same criteria as Round 2.

Round 4 = Analyze samples identified in Round 3 using the same criteria as Round 2.

Total PCBs = sum of PCB results (generally Arochlor 1248, 1254, and 1260), converted to mg/kg.

E = Extraction requested (samples have a holdtime of 14 days from collection to extraction, and extracts have a holdtime of 40 days after the extraction date).

Footnotes:

- a) Sample analyzed by IEA in error.

Table 3
Summary Phased Analytical Approach
American Chemical Service, Inc. NPL Site
Griffith Indiana

| Round 1 | | Round 2 | | Round 3 | | Round 4 | |
|----------------|-------|---|------------------------------------|--|--------------------|-------------------|-------|
| Sample | mg/kg | Sample | mg/kg | Sample | mg/kg | Sample | mg/kg |
| SDB1-0.5' | 0.056 | NFA | | | | | |
| SDB5-0.5' | 1.51 | SDB5-1.0' SDB4-0.5' SDC5-0.5' SDB6-0.5' SDA5-0.5' | ND 0.11 1.42 0.72 0.75 | NFA NFA SDC5-1.0' SDD5-0.5' | 3.6 NA | SDC5-1.5' | ND |
| SDB9-0.5' | 14.1 | SDB9-1.0' SDB8-0.5' SDB10-0.5' SDA9-0.5' | 0.068 0.41 1.2 0.367 | NFA NFA SDB10-1.0' SDB11-0.5' SDA10-0.5' | 0.18 0.25 ND | NFA NFA NFA | |
| SDC2-0.5' | 0.21 | NFA | | | | | |
| SDC4-0.5' | 0.432 | NFA | | | | | |
| SDC6-0.5' | 1.89 | SDC6-1.0' SDD6-0.5' SDC7-0.5' | ND ND 1.23 | NFA NFA SDC7-1.0' SDB7-0.5' | 30.3 0.90 | SDC7-1.5' | ND |
| SDC8-0.5' | 73 | SDC8-1.0' SDD8-0.5' | 0.12 0.044 | NFA NFA | | | |
| SDC9-1.0' | 0.093 | NFA | | | | | |
| SDC10-0.5' | 0.7 | SDC10-1.0' SDD10-0.5' SDC11-0.5' | 0.14 0.13 2.52 | NFA NFA SDC11-1.0' SDD11-0.5' | 1.45 2.16 | SDC11-1.5' | 0.056 |
| SDD3-0.5' | 0.319 | NFA | | | | | |
| SDD7-0.5' | 0.65 | NFA | | | | | |
| SDD9-0.5' | 0.021 | NFA | | | | | |
| SD T1 (B)-0.5' | 10.2 | SD T1 (A)-0.5' | 0.81 | NFA | | | |
| SD T1 (C)-0.5' | 14.4 | SD T1 (B)-1.0' | 0.063 | NFA | | | |
| SD T1 (D)-0.5' | 5.21 | SD T1 (C)-1.0' | 0.46 | NFA | | | |
| | | SD T1 (D)-1.0' | 0.2 | NFA | | | |
| | | SD T1 (E)-0.5' | 0.24 | NFA | | | |
| SD T2 (B)-0.5' | 7.23 | SD T2 (A)-0.5' | 0.26 | NFA | | | |
| SD T2 (C)-0.5' | 359 | SD T2 (B)-1.0' | 0.48 | NFA | | | |
| SD T2 (D)-0.5' | 29 | SD T2 (C)-1.0' | 4.76 | SD T2 (C)-1.5' | 3.02 | end of boring | |
| | | SD T2 (D)-1.0' | 9.4 | SD T2 (D)-1.5' | 0.96 | NFA | |
| | | SD T2 (E)-0.5' | ND | NFA | | | |

Table 3

| Round 1 | | Round 2 | | Round 3 | | Round 4 | |
|---------------------------|-------|----------------------|-------|----------------|-------|---------------|-------|
| Sample | mg/kg | Sample | mg/kg | Sample | mg/kg | Sample | mg/kg |
| SD T3 (B)-0.5' | 234 | SD T3 (A)-0.5' | 12 | SD T3 (A)-1.0' | 0.08 | NFA | |
| SD T3 (C)-1.0' | 0.22 | SD T3 (B)-1.0' | 27 | SD T3 (B)-1.5' | 4.0 | end of boring | |
| SD T3 (D)-0.5' | 15.7 | SD T3 (D)-1.0' | 0.15 | NFA | | NFA | |
| | | SD T3 (E)-0.5' | 1.0 | NFA | | | |
| SD T4 (B)-0.5' | 0.15 | NFA | | SD T4 (A)-0.5' | ND | | |
| SD T4 (C)-1.0' | 60 | SD T4 (C)-1.5' | 24.5 | end of boring | | | |
| SD T4 (D)-0.5' | 0.74 | NFA | | | | | |
| Culvert Outfall-0.5' | 2.08 | Culvert Outfall-1.0' | 0.03 | NFA | | | |
| Culvert Downstream-0.5' | 0.29 | NFA | | | | | |
| Culvert Upstream (1)-0.5' | 0.099 | NFA | | | | | |
| Culvert Upstream (2)-0.5' | 0.36 | NFA | | | | | |
| | | SDA2-0.5' | 0.223 | NFA | | | |

This table presents the process used to determine samples included in each successive round of PCB analysis for the ACS Phase 2 Wetland Investigation. Round 1 samples were preselected for analysis before the field investigation began. Based on Round 1 preliminary analytical results, Round 2 samples were selected for analysis. Round 3 samples were then selected based on Round 2, on so on until the samples analyzed had less than 1 mg/kg total PCBs, or the boring intervals were all analyzed. Samples are included on this table only one time, regardless of how often a location and interval may be selected by the decision process.

For example, SDB9-0.5' was analyzed in Round 1 with a total PCB result of 14 mg/kg. Five samples (the interval below plus the 0.5' sample from each cardinal direction) were selected for Round 2. Note that one of the five (SDC8-0.5') was selected in Round 1 and therefore is not re-selected in Round 2. Of these Round 2 samples, those with total PCBs less than 1 mg/kg do not trigger further analysis (i.e., "NFA"). SDB10-0.5' had a concentration of 1.2 mg/kg, therefore Round 3 samples were selected from beneath and to the sides where previous analysis had not occurred. Of the Round 3 samples, all were less than 1 mg/kg, therefore no Round 4 analyses were required.

Because preliminary results (as opposed to final validated results) were used to select the next round of analysis, some samples near the 1 mg/kg cutoff appear to have been selected or missed in error. This problem could not be avoided without significantly missing analysis hold-times.

Results are presented as mg/kg total PCBs.

NFA = No further analysis required.

ND = PCBs not detected in sample.

Notes:

1. Samples analyzed but not presented on this table include:
 - SDA5-1.5' was analyzed by the laboratory in error.
 - SDT3(A)-1.5' was analyzed by the laboratory in error.
 - SDT2(A)-1.0' was analyzed based on draft results for the 0.5' interval, which were revised to less than 1 mg/kg in the final report.
2. Sample SDD5-0.5' was not analyzed, because SDC5 samples were initially missed by the lab and not completed until mid-January, after Round 4 had been scheduled.
3. Sample SDA2-0.5', located in the channel upstream of the culvert, was selected in Round 2 to provide additional coverage within that portion of the wetland.
4. Sample SDC10-0.5' had a draft total PCB concentration of 1.05 mg/kg, thus Round 2 samples were selected.
5. Sample SDT4(A)-0.5' was added in Round 3 for additional coverage.

Table 4
Summary of Wetland Sediment Sample Analytical Results
American Chemical Service, Inc. NPL Site
Griffith Indiana

| Sampleid | Depth | AR-1016 ug/kg | AR-1221 ug/kg | AR-1232 ug/kg | AR-1242 ug/kg | AR-1248 ug/kg | AR-1254 ug/kg | AR-1260 ug/kg | Total PCBs mg/kg | Mercury mg/kg | |
|---------------|-------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---------------------|------------------|---------|
| APD-SDA02 | 0.5 | 60 | U/ | 120 | U/ | 60 | U/ | 100 | P/ | 70 | P/ |
| APD-SDA05 | 0.5 | 73 | U/ | 150 | U/ | 73 | U/ | 160 | P/ | 320 | / |
| APD-SDA05 | 1.5 | 42 | U/ | 85 | U/ | 42 | U/ | 42 | JP/ | 2.8 | JP/ |
| APD-SDA09 | 0.5 | 59 | U/ | 120 | U/ | 59 | U/ | 57 | U/ | 100 | P/ |
| APD-SDA10 | 0.5 | 51 | U/ | 100 | U/ | 51 | U/ | 51 | U/ | 51 | U/ |
| APD-SDB01 | 0.5 | 94 | U/ | 190 | U/ | 94 | U/ | 94 | U/ | 15 | JP/ |
| APD-SDB04 | 0.5 | 89 | U/ | 180 | U/ | 89 | U/ | 38 | U/ | 54 | U/ |
| APD-SDB05 | 0.5 | 100 | U/ | 210 | U/ | 100 | U/ | 250 | / | 830 | P/ |
| APD-SDB05 | 1.0 | 42 | U/ | 86 | U/ | 42 | U/ | 42 | U/ | 42 | U/ |
| APD-SDB06 | 0.5 | 230 | U/ | 460 | U/ | 230 | U/ | 160 | U/ | 370 | / |
| APD-SDB07 | 0.5 | 53 | U/ | 110 | U/ | 53 | U/ | 370 | / | 310 | P/ |
| APD-SDB08 | 0.5 | 97 | U/ | 200 | U/ | 97 | U/ | 79 | U/ | 250 | / |
| APD-SDB09 | 0.5 | 4,700 | U/ | 9,600 | U/ | 4,700 | U/ | 2,100 | U/ | 7,100 | / |
| APD-SDB09 | 1.0 | 42 | U/ | 84 | U/ | 42 | U/ | 27 | JP/ | 41 | JP/ |
| APD-SDB10 | 0.5 | 310 | U/ | 630 | U/ | 310 | U/ | 230 | U/ | 670 | / |
| APD-SDB10 | 1.0 | 44 | U/ | 90 | U/ | 44 | U/ | 36 | U/ | 90 | / |
| APD-SDB11 | 0.5 | 57 | U/UJ | 120 | U/UJ | 57 | U/UJ | 57 | U/UJ | 170 | / |
| APD-SDC02 | 0.5 | 72 | U/ | 140 | U/ | 72 | U/ | 49 | JP/ | 99 | P/ |
| APD-SDC04 | 0.5 | 52 | U/ | 110 | U/ | 52 | U/ | 72 | P/ | 230 | / |
| APD-SDC05 | 0.5 | 270 | U/ | 540 | U/ | 270 | U/ | 490 | P/ | 440 | / |
| APD-SDC05 | 1.0 | 270 | U/ | 550 | U/ | 270 | U/ | 1,600 | / | 1,000 | P/ |
| APD-SDC05 | 1.5 | 41 | U/UJ | 41 | U/UJ | 41 | U/UJ | 41 | U/UJ | 41 | U/UJ |
| APD-SDC06 | 0.5 | 220 | U/ | 450 | U/ | 220 | U/ | 220 | U/ | 940 | / |
| APD-SDC06 | 1.0 | 40 | U/ | 82 | U/ | 40 | U/ | 40 | U/ | 40 | U/ |
| APD-SDC07 | 0.5 | 57 | U/ | 120 | U/ | 57 | U/ | 400 | JP/ | 520 | JP/ |
| APD-SDC07 Dup | 0.5 | 490 | U/ | 990 | U/ | 490 | U/ | 15,000 | CDP/ | 15,000 | CDP/ |
| APD-SDC07 | 1.0 | 4,700 | U/ | 9,600 | U/ | 4,700 | U/ | 11,000 | P/ | 6,300 | P/ |
| APD-SDC07 | 1.5 | 40 | U/UJ | 81 | U/UJ | 40 | U/UJ | 40 | U/UJ | 40 | U/UJ |
| APD-SDC08 | 0.5 | 7,200 | U/ | 14,000 | U/ | 7,200 | U/ | 7,200 | U/ | 35,000 | P/ |
| APD-SDC08 | 1.0 | 43 | U/ | 87 | U/ | 43 | U/ | 68 | / | 52 | / |
| APD-SDC09 | 1.0 | 41 | U/ | 83 | U/ | 41 | U/ | 21 | JP/ | 49 | P/ |
| APD-SDC10 | 0.5 | 89 | U/ | 180 | / | 89 | U/ | 170 | P/ | 360 | P/ |
| APD-SDC10 | 1.0 | 44 | U/ | 89 | U/ | 44 | U/ | 71 | / | 73 | P/ |
| APD-SDC11 | 0.5 | 62 | U/ | 120 | U/ | 62 | U/ | 1,300 | C/ | 860 | CP/ |
| APD-SDC11 | 1.0 | 45 | U/ | 91 | U/ | 45 | U/ | 730 | / | 440 | P/ |
| APD-SDC11 | 1.5 | 42 | U/UJ | 85 | U/UJ | 42 | U/UJ | 36 | JP/J | 20 | J/J |
| APD-SDD03 | 0.5 | 57 | U/ | 120 | U/ | 57 | U/ | 57 | U/ | 62 | P/ |
| | | | | | | | | 170 | / | 87 | P/ |
| | | | | | | | | | | 0.319 | 0.17 U/ |

Table 4
Summary of Wetland Sediment Sample Analytical Results
American Chemical Service, Inc. NPL Site
Griffith Indiana

| Sampleid | Depth | AR-1016 ug/kg | AR-1221 ug/kg | AR-1232 ug/kg | AR-1242 ug/kg | AR-1248 ug/kg | AR-1254 ug/kg | AR-1260 ug/kg | Total PCBs mg/kg | Mercury mg/kg | |
|---------------|-------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---------------------|------------------|------------|
| APD-SDD06 | 0.5 | 82 | U/ | 170 | U/ | 82 | U/ | 82 | U/ | ND | na |
| APD-SDD07 | 0.5 | 160 | U/ | 340 | U/ | 160 | U/ | 160 | U/ | 0.65 | 0.11 U/ |
| APD-SDD08 | 0.5 | 40 | U/ | 82 | U/ | 40 | U/ | 40 | U/ | 0.044 | na |
| APD-SDD09 | 0.5 | 39 | U/ | 80 | U/ | 39 | U/ | 39 | U/ | 0.021 | 0.10 U/ |
| APD-SDD10 | 0.5 | 75 | U/ | 150 | U/ | 75 | U/ | 75 | U/ | 0.130 | na |
| APD-SDD11 | 0.5 | 94 | U/ | 190 | U/ | 94 | U/ | 94 | U/ | 2.16 | na |
| APD-SDD11 | 1.0 | 42 | U/UJ | 86 | U/UJ | 42 | U/UJ | 42 | U/UJ | 0.054 | na |
| APD-SDT1 (B) | 0.5 | 2,200 | U/ | 4,500 | U/ | 2,200 | U/ | 2,200 | U/ | 10.2 | 0.44 / |
| APD-SDT1 (C) | 0.5 | 3,000 | U/ | 6,100 | U/ | 3,000 | U/ | 3,000 | U/ | 14.4 | 1.4 / |
| APD-SDT1 (D) | 0.5 | 1,200 | U/ | 2,400 | U/ | 1,200 | U/ | 1,200 | U/ | 5.2 | 2.6 / |
| APD-SDT2 (B) | 0.5 | 1,200 | U/ | 2,500 | U/ | 1,200 | U/ | 930 | U/ | 7.23 | 0.15 U/ |
| APD-SDT2 (C) | 0.5 | 85,000 | U/ | 170,000 | U/ | 85,000 | U/ | 99,000 | U/ | 359 | 6.1 / |
| APD-SDT2 (D) | 0.5 | 16,000 | U/ | 34,000 | U/ | 16,000 | U/ | 6,700 | U/ | 29 | 1.6 / |
| APD-SDT3 (B) | 0.5 | 34,000 | U/ | 70,000 | U/ | 34,000 | U/ | 54,000 | U/ | 234 | 1.2 / |
| APD-SDT3 (C) | 1.0 | 48 | U/ | 97 | U/ | 48 | U/ | 80 | U/ | 0.22 | 0.13 U/ |
| APD-SDT3 (D) | 0.5 | 3,600 | U/ | 7,300 | U/ | 3,600 | U/ | 2,200 | U/ | 16 | 2.5/ |
| APD-SDT4 (B) | 0.5 | 43 | U/ | 87 | U/ | 43 | U/ | 13 | U/ | 0.15 | 0.19 UN/UJ |
| APD-SDT4 (C) | 1.0 | 32,000 | U/ | 64,000 | U/ | 32,000 | U/ | 10,000 | U/ | 60 | 0.28 NJ |
| APD-SDT4 (D) | 0.5 | 80 | U/ | 160 | U/ | 80 | U/ | 22 | U/ | 0.74 | 0.12 UN/UJ |
| APD-SD T1 (A) | 0.5 | 89 | U/ | 180 | U/ | 89 | U/ | 89 | U/ | 0.81 | na |
| APD-SD T1 (B) | 1.0 | 43 | U/ | 87 | U/ | 43 | U/ | 18 | U/ | 0.063 | na |
| APD-SD T1 (C) | 1.0 | 85 | U/ | 170 | U/ | 85 | U/ | 120 | U/ | 0.461 | na |
| APD-SD T1 (D) | 1.0 | 88 | U/ | 180 | U/ | 88 | U/ | 88 | U/ | 0.198 | na |
| APD-SD T1 (E) | 0.5 | 72 | U/ | 140 | U/ | 72 | U/ | 57 | U/ | 0.237 | na |
| APD-SD T2 (A) | 0.5 | 59 | U/ | 120 | U/ | 59 | U/ | 59 | U/ | 0.260 | na |
| APD-SD T2 (A) | 1.0 | 42 | U/ | 86 | U/ | 42 | U/ | 5 | U/ | 0.022 | na |
| APD-SD T2 (B) | 1.0 | 52 | U/ | 100 | U/ | 52 | U/ | 180 | U/ | 0.48 | na |
| APD-SD T2 (C) | 1.0 | 48 | U/ | 98 | U/ | 48 | U/ | 1,800 | CDP/ | 4.76 | na |
| APD-SD T2 (C) | 1.5 | 480 | U/ | 970 | U/ | 480 | U/ | 1,300 | / | 3.82 | na |
| APD-SD T2 (D) | 1.0 | 51 | U/ | 100 | U/ | 51 | U/ | 4,300 | CD/ | 9.40 | na |
| APD-SD T2 (D) | 1.5 | 52 | U/ | 100 | U/ | 52 | U/ | 510 | / | 0.96 | na |
| APD-SD T2 (E) | 0.5 | 36 | U/ | 74 | U/ | 36 | U/ | 36 | U/ | ND | na |
| APD-SD T3 (A) | 0.5 | 42 | U/ | 84 | U/ | 42 | U/ | 5,000 | DP/ | 11.6 | na |
| APD-SD T3 (A) | 1.0 | 41 | U/ | 84 | U/ | 41 | U/ | 14 | U/ | 0.08 | na |
| APD-SD T3 (A) | 1.5 | 81 | U/ | 160 | U/ | 81 | U/ | 81 | U/ | 0.132 | na |
| APD-SD T3 (B) | 1.0 | 530 | U/ | 1,100 | U/ | 530 | U/ | 13,000 | PDV/ | 27 | na |
| APD-SD T3 (B) | 1.5 | 46 | U/ | 93 | U/ | 46 | U/ | 2,200 | PDV/ | 4.0 | na |

Table 4
Summary of Wetland Sediment Sample Analytical Results
American Chemical Service, Inc. NPL Site
Griffith Indiana

| Sampleid | Depth | AR-1016 ug/kg | AR-1221 ug/kg | AR-1232 ug/kg | AR-1242 ug/kg | AR-1248 ug/kg | AR-1254 ug/kg | AR-1260 ug/kg | Total PCBs mg/kg | Mercury mg/kg | |
|--------------------------|-------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---------------------|------------------|------------|
| APD-SD T3 (D) | 1.0 | 44 | U/ | 88 | U/ | 44 | U/ | 61 | P/ | 44 | U/ |
| APD-SD T3 (E) | 0.5 | 320 | U/ | 660 | U/ | 320 | U/ | 320 | / | 400 | / |
| APD-SD T4 (A) | 0.5 | 41 | U/UJ | 84 | U/UJ | 41 | U/UJ | 41 | U/UJ | 41 | U/UJ |
| APD-SD T4 (C) | 1.5 | 410 | U/ | 840 | U/ | 410 | U/ | 12,000 | DC/ | 4,800 | DCP/ |
| APD-Culvert Downstream | 0.5 | 48 | U/ | 97 | U/ | 48 | U/ | 58 | / | 120 | / |
| APD-Culvert Outfall | 0.5 | 78 | U/ | 160 | U/ | 78 | U/ | 310 | / | 760 | P/ |
| APD-Culvert Outfall | 1.0 | 51 | U/ | 100 | U/ | 51 | U/ | 51 | U/ | 28 | P/ |
| APD-Culvert Upstream (1) | 0.5 | 77 | U/ | 160 | U/ | 77 | U/ | 29 | JP/ | 51 | U/ |
| APD-Culvert Upstream (2) | 0.5 | 94 | U/ | 190 | U/ | 94 | U/ | 110 | / | 27 | JP/ |
| | | | | | | | | 140 | / | 110 | P/ |
| | | | | | | | | | | 0.36 | 0.19 UN/UJ |

Notes:

This table presents final, validated results for sediment samples collected at the ACS Site in Griffith, Indiana between November 20 and 22, 1996. Samples were analyzed in rounds. Round 1 was determined by mutual agreement between all parties. Rounds 2, 3, and 4 were selected to include intervals to the side and beneath any sample with a total PCB concentration greater than 1 ppm (based on preliminary results; final results may have been revised).

For each sample and analyte, this table presents the result (either the reported concentration or the reported sample quantitation limit) followed by the laboratory qualifier / data validation qualifier.

Laboratory Qualifiers:

U = Undetected at the reported sample quantitation limit (CRQL adjusted for dry weight, splits and any dilution factor).

J = The associated numerical value is an estimated quantity, because the value was less than the sample quantitation limit (SQL).

P = This qualifier is used for a pesticide/PCB target compound when there is greater than a 25% difference for the detected concentrations between the two GC columns. The lower of the two values is reported.

C = Identification confirmed by GC/MS.

D = Result from secondary dilution analysis. In general, the result from the least dilute analysis that is also within the instrument linear range is reported.

N = Indicates spike sample recovery was not within control limits.

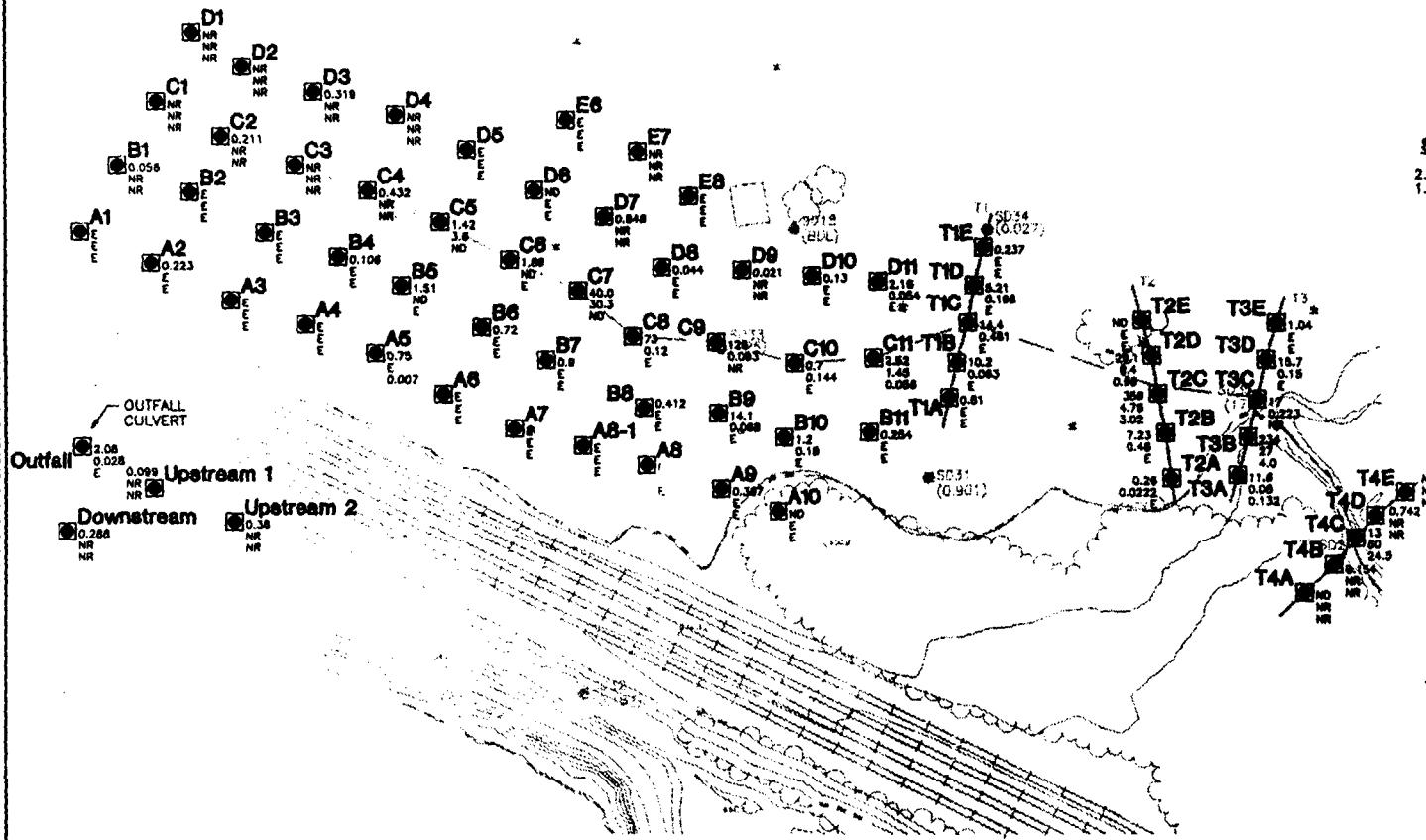
na = Not analyzed.

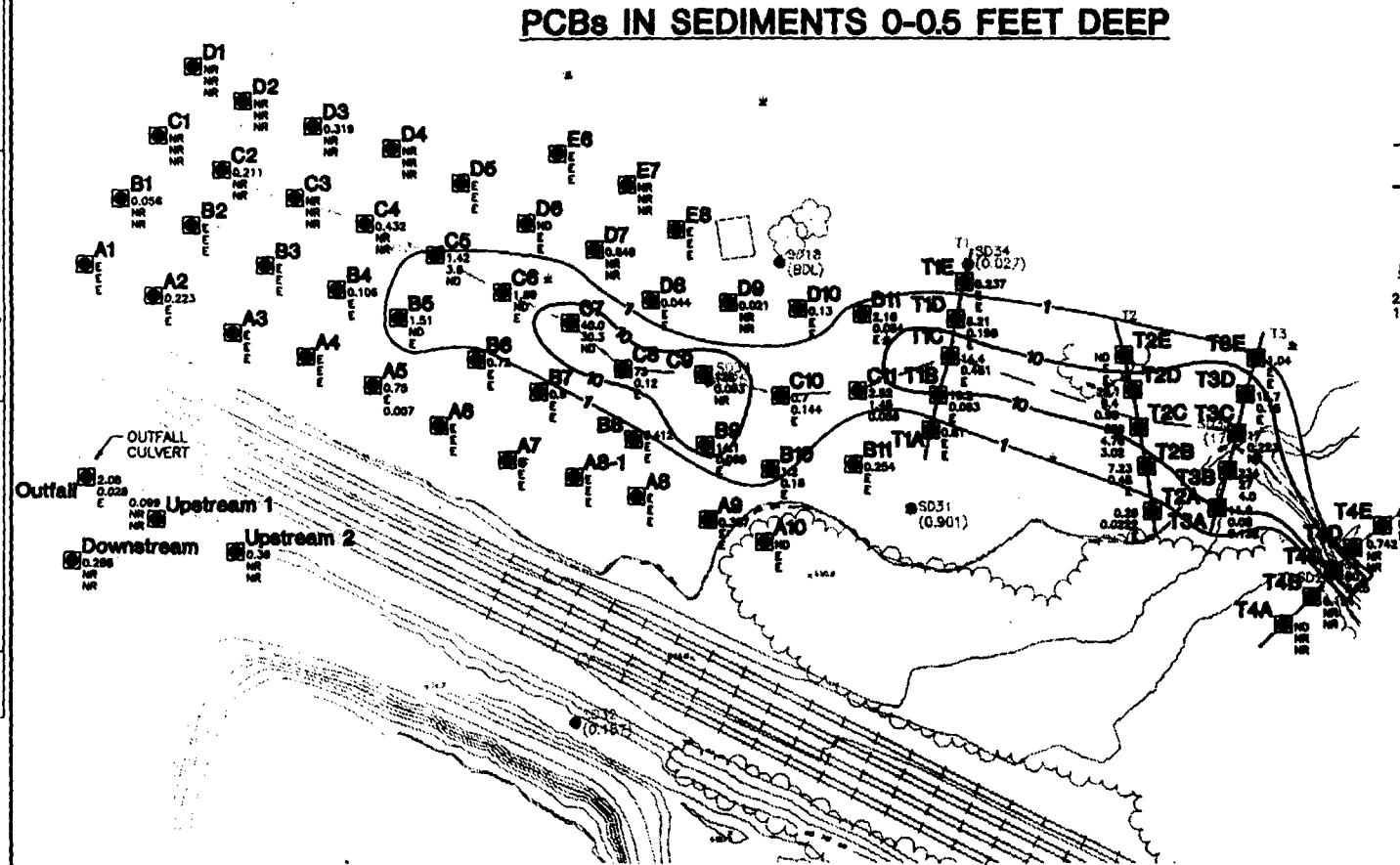
Data Validation Qualifiers:

Where required, data validation qualifiers have been added after the lab qualifier and separated by a "/".

U = Result is qualified as undetected at the reported concentration (either the sample result or the SQL, which ever is greater) due to contamination in an associated blank.

J = Result is estimated due to validation QC criteria (e.g., holdtime exceedence).





PCBs IN SEDIMENTS 0-0.5 FEET DEEP

LEADER

— CHANNEL COURSES

**SEDIMENT/SOIL SAMPLE LOCATION
AND NUMBER, FROM PHASE I
WETLAND INVESTIGATION**

(0.901) TOTAL PCB CONCENTRATION,
in mg/kg FROM PHASE I
WETLAND INVESTIGATION

A1 WETLAND SAMPLE LOCATION
AND NUMBER

—1— APPROXIMATE 1 mg/kg PCB
 ISOCONCENTRATION CONTOUR
 —10— APPROXIMATE 10 mg/kg PCB
 ISOCONCENTRATION CONTOUR

SUMMARY OF TOTAL PCB RESULTS

2.52 - 0.5 ft.
1.45 - 1.0 ft.
NO - 1.5 ft. — ALL RESULTS IN mg/kg (ppm)

ND NOT DETECTED (DETECTION LIMIT APPROXIMATELY 0.05 mg/kg)
E EXTRACTED, NOT ANALYZED
NR ANALYSIS NOT REQUESTED

NOTE

1. BASE MAP DEVELOPED FROM AN AERIAL SURVEY MAP OF THE SITE FLOWN ON MARCH 8, 1994 BY GEONEX CHICAGO AERIAL SURVEY, INC. CONTOUR INTERVAL IS TWO FEET.
 2. SEDIMENT SAMPLES COLLECTED BY MONTGOMERY WATSON FROM NOVEMBER 18 TO NOVEMBER 21, 1996.
 3. THE ISOCONCENTRATION CONTOURS WERE ESTIMATED MANUALLY USING THE ANALYTICAL DATA.



- 100 -

SCALE IN FEET

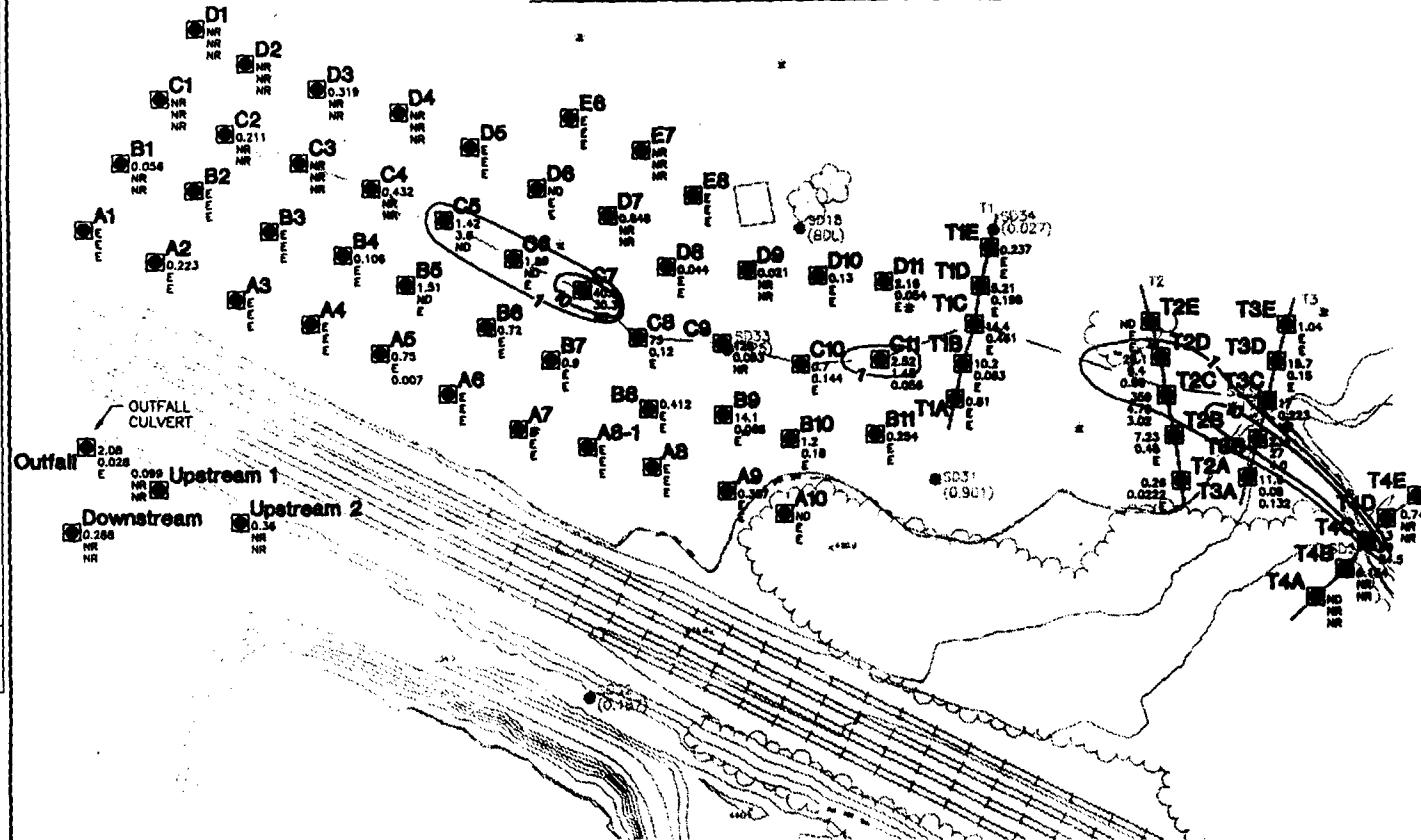
WEBSITE SUPPORT FOR MODIFICATIONS AND 6-0-6 FT TERMINAL

AMERICAN CHEMICAL SERVICE, INC.
NPL SITE

Drawing Number
1252042
Date 09/03/04 B2

FIGURE 2

PCBs IN SEDIMENTS 0.5-1 FEET DEEP



LEGEND

- CHANNEL COURSE
- SEDIMENT/SOIL SAMPLE LOCATION AND NUMBER, FROM PHASE 1 WETLAND INVESTIGATION
- TOTAL PCB CONCENTRATION, IN mg/kg FROM PHASE 1 WETLAND INVESTIGATION
- WETLAND SAMPLE LOCATION AND NUMBER
- APPROXIMATE 1 mg/kg PCB ISOCONCENTRATION CONTOUR
- APPROXIMATE 10 mg/kg PCB ISOCONCENTRATION CONTOUR

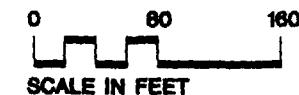
SUMMARY OF TOTAL PCB RESULTS

2.52 - 0.5 ft. — ALL RESULTS IN mg/kg (ppm)
1.45 - 1.0 ft. —
ND - 1.5 ft.

ND — NOT DETECTED (DETECTION LIMIT APPROXIMATELY 0.05 mg/kg)
E — EXTRACTED, NOT ANALYZED
NR — ANALYSIS NOT REQUESTED

NOTES

1. BASE MAP DEVELOPED FROM AN AERIAL SURVEY MAP OF THE SITE FLOWN ON MARCH 8, 1994 BY GEONEX CHICAGO AERIAL SURVEY, INC. CONTOUR INTERVAL IS TWO FEET.
2. SEDIMENT SAMPLES COLLECTED BY MONTGOMERY WATSON FROM NOVEMBER 18 TO NOVEMBER 21, 1996.
3. THE ISOCONCENTRATION CONTOURS WERE ESTIMATED MANUALLY USING THE ANALYTICAL DATA.



WETLAND SEDIMENT PCB ISOCONCENTRATION MAP (0.5-1 FT INTERVAL)

AMERICAN CHEMICAL SERVICE, INC.
NPL SITE
GRIFFITH, INDIANA

Drawing Number
1252042
0809.0078 B3

MONTGOMERY
WATSON

FIGURE 3

Management Review

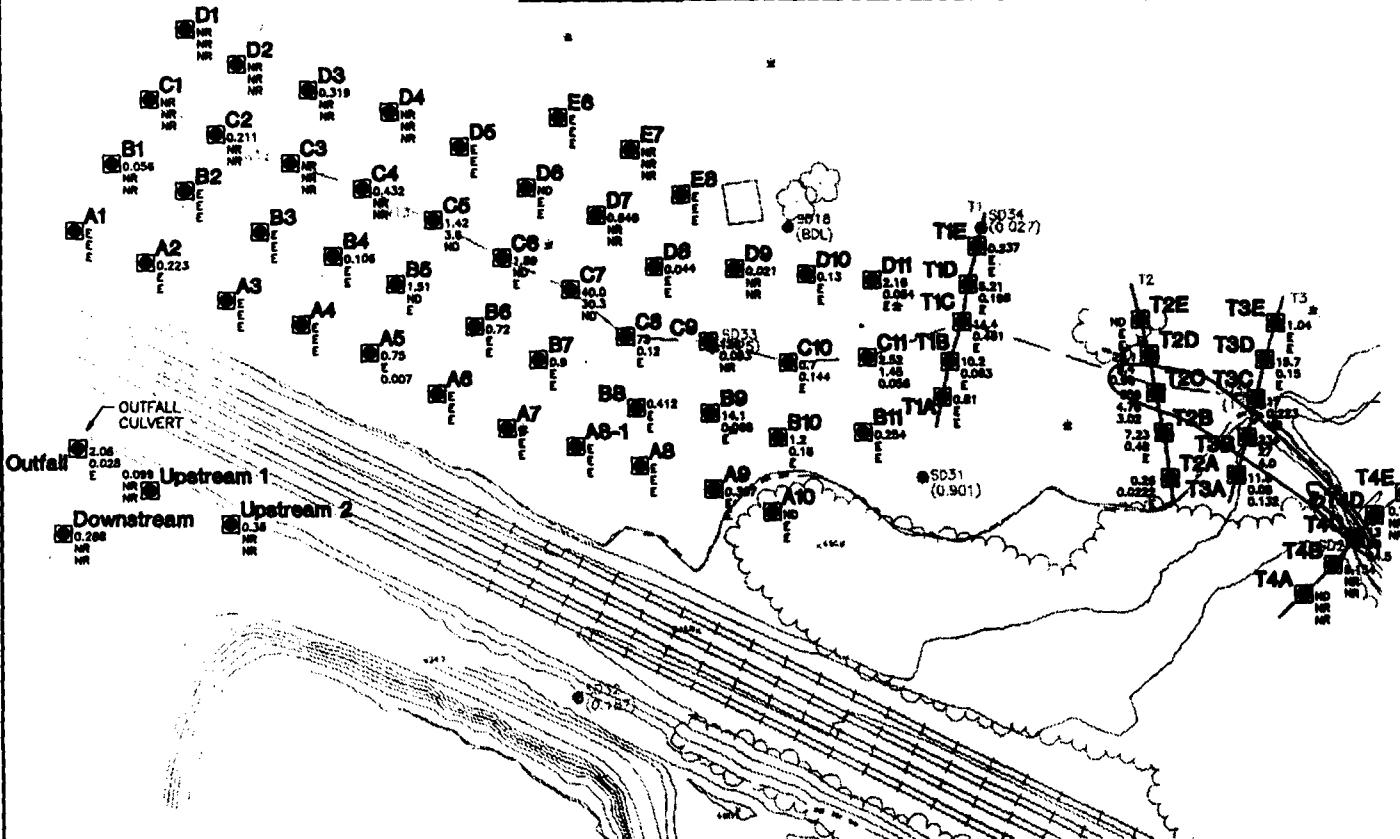
Other

Technical Review

11-26-96

Graphic Standards CCR
Land Professional

QUALITY CONTROL

**LEGEND**

- CHANNEL COURSE
- SD31 SEDIMENT/SOIL SAMPLE LOCATION AND NUMBER, FROM PHASE I WETLAND INVESTIGATION
- (0.901) TOTAL PCB CONCENTRATION, IN mg/kg FROM PHASE I WETLAND INVESTIGATION
- A1 WETLAND SAMPLE LOCATION AND NUMBER
- 1 APPROXIMATE 1 mg/kg PCB ISOCONCENTRATION CONTOUR
- 10 APPROXIMATE 10 mg/kg PCB ISOCONCENTRATION CONTOUR

SUMMARY OF TOTAL PCB RESULTS

2.52 - 0.5 ft. ALL RESULTS IN mg/kg (ppm)
 1.45 - 1.0 ft.
 ND - 1.5 ft.
 ND NOT DETECTED (DETECTION LIMIT APPROXIMATELY 0.05 mg/kg)
 E EXTRACTED, NOT ANALYZED
 NR ANALYSIS NOT REQUESTED

WETLAND SEDIMENT PCB ISOCONCENTRATION MAP (0-10 FT INTERVAL)

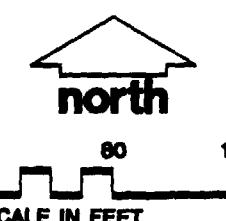
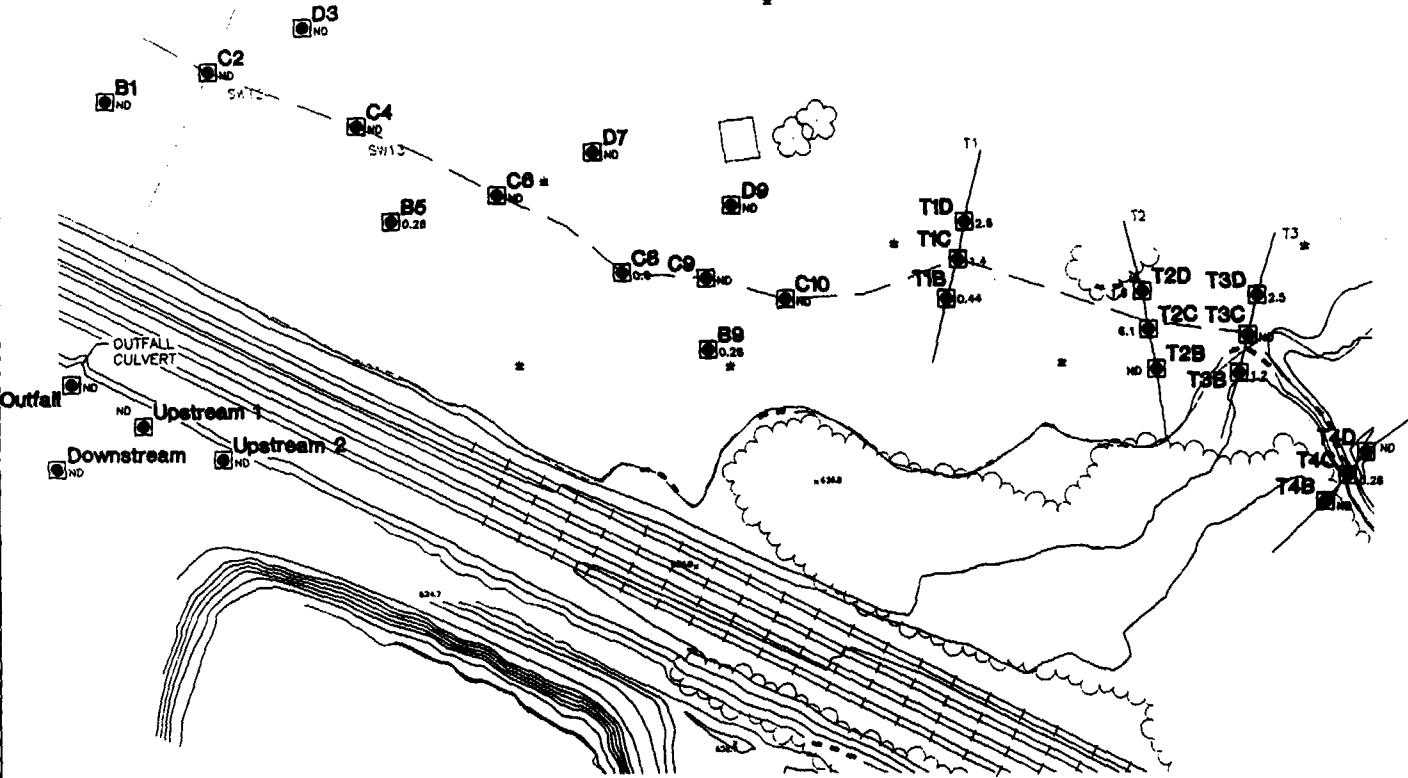
AMERICAN CHEMICAL SERVICE, INC.
NPL SITE
GRIFFITH, INDIANADrawing Number
1252042
0809.0076 B4MONTGOMERY
WATSON

FIGURE 4



LEGEND

— CHANNEL COURSE

B1 WETLAND SAMPLE LOCATION AND NUMBER

2.5 TOTAL MERCURY CONCENTRATION, in mg/kg

ND NOT DETECTED (DETECTION LIMIT APPROXIMATELY 0.1 mg/kg)

ND

</

C

C



A



A

ANALYTICAL RESULTS

A1 PCB Analytical Results
A2 Mercury Analytical Results

A1

PCB ANALYTICAL RESULTS

Summary of Wetland Sediment Sample Analyses
American Chemical Service
Griffith Indiana

| Sampleid | Depth | Lab # | Sample Date | Extract Date | Run Date |
|---------------------|-------|------------|-------------|--------------|----------------|
| SDG 65603 | | IEA-NJ | | | |
| APD-SDB5 | 1.0 | 65603001 | 11/20/96 | 12/2/96 | 12 12/14/96 12 |
| APD-SDC6 | 1.0 | 65603003 | 11/20/96 | 12/2/96 | 12 12/14/96 12 |
| APD-SDC8 | 1.0 | 65603005 | 11/20/96 | 12/2/96 | 12 12/15/96 13 |
| APD-SDB9 | 1.0 | 65603007 | 11/20/96 | 12/2/96 | 12 12/15/96 13 |
| APD-Culvert Outfall | 1.0 | 65603009 | 11/20/96 | 12/2/96 | 12 12/15/96 13 |
| APD-SDD8 | 0.5 | 65603012 | 11/20/96 | 12/2/96 | 12 12/15/96 13 |
| APD-SDD6 | 0.5 | 65603015 | 11/20/96 | 12/2/96 | 12 12/14/96 12 |
| APD-SDC10 | 1.0 | 65603017 | 11/20/96 | 12/2/96 | 12 12/15/96 13 |
| APD-SD T1 (E) | 0.5 | 65603023 | 11/21/96 | 12/2/96 | 11 12/15/96 13 |
| APD-SD T2 (A) | 0.5 | 65603032 | 11/20/96 | 12/2/96 | 12 12/15/96 13 |
| APD-SD T2 (E) | 0.5 | 65603034 | 11/20/96 | 12/2/96 | 12 12/15/96 13 |
| APD-SD T3 (A) | 0.5 | 65603036 | 11/20/96 | 12/2/96 | 12 12/15/96 13 |
| APD-SD T3 (B) | 1.0 | 65603038 | 11/20/96 | 12/2/96 | 12 12/15/96 13 |
| APD-SD T3 (B) | 1.5 | 65603039 | 11/20/96 | 12/2/96 | 12 1/6/97 35 |
| APD-SD T3 (D) | 1.0 | 65603040 | 11/20/96 | 12/2/96 | 12 12/15/96 13 |
| SDG 12560 | | IEA-NC | | | |
| APD-SDC7 | 1.0 | 961256001 | 11/21/96 | 12/4/96 | 13 1/12/97 39 |
| APD-SDB7 | 0.5 | 961256002 | 11/21/96 | 12/4/96 | 13 1/12/97 39 |
| APD-SDD11 | 0.5 | 961256003 | 11/21/96 | 12/4/96 | 13 1/10/97 37 |
| APD-SDC5 | 1.0 | 961256004 | 11/21/96 | 12/4/96 | 13 1/12/97 39 |
| APD-SDC11 | 1.0 | 961256005 | 11/21/96 | 12/4/96 | 13 1/12/97 39 |
| APD-SDCS | 0.5 | 961256006 | 11/21/96 | 12/3/96 | 12 1/12/97 40 |
| APD-SD T2 (C) | 1.5 | 961256007 | 11/20/96 | 12/4/96 | 14 1/12/97 39 |
| APD-SD T2 (D) | 1.5 | 961256008 | 11/20/96 | 12/4/96 | 14 1/10/97 37 |
| APD-SDA10 | 0.5 | 961256009 | 11/21/96 | 12/4/96 | 13 1/10/97 37 |
| SDG 1189 | | IEA-NC | | | |
| APD-SD T4 (A) | 0.5 | 970118901 | 11/21/96 | 1/14/97 | 54 1/21/97 7 |
| APD-SDB11 | 0.5 | 970118902 | 11/21/96 | 1/14/97 | 54 1/21/97 7 |
| SDG 1349 | | IEA-NC | | | |
| APD-SDC11 | 1.5 | 970134901 | 11/21/96 | 12/3/96 | 12 1/21/97 49 |
| APD-SDC7 | 1.5 | 970134902 | 11/21/96 | 12/3/96 | 12 1/28/97 56 |
| APD-SDC5 | 1.5 | 970134903 | 11/21/96 | 12/4/96 | 13 1/28/97 55 |
| APD-SDD11 | 1.0 | 970134904 | 11/21/96 | 12/4/96 | 13 1/28/97 55 |
| SDG 11589 | | IEA-NC | | | |
| APD-SDC7 | 0.5 | 9611589-07 | 11/21/96 | 12/3/96 | 12 12/20/96 17 |
| APD-SD T2 (B) | 1.0 | 9611589-08 | 11/21/96 | 12/3/96 | 12 12/20/96 17 |
| APD-SD T2 (C) | 1.0 | 9611589-16 | 11/20/96 | 12/3/96 | 13 12/20/96 17 |
| SDG 11591 | | IEA-NC | | | |
| APD-SDC7 Dup | 0.5 | 9611591-03 | 11/21/96 | 12/4/96 | 13 12/19/96 15 |
| APD-SDC11 | 0.5 | 9611591-04 | 11/21/96 | 12/4/96 | 13 12/18/96 14 |
| APD-SD T4 (C) | 1.5 | 9611591-05 | 11/20/96 | 12/4/96 | 14 12/19/96 15 |
| APD-SDA2 | 0.5 | 9611591-12 | 11/21/96 | 12/4/96 | 13 12/15/96 11 |
| APD-SDA9 | 0.5 | 9611591-15 | 11/21/96 | 12/4/96 | 13 12/14/96 10 |
| APD-SDA5 | 0.5 | 9611591-20 | 11/21/96 | 12/4/96 | 13 12/14/96 10 |
| SDG 11593 | | IEA-NC | | | |
| APD-SDD10 | 0.5 | 9611593-01 | 11/21/96 | 12/4/96 | 13 12/13/96 9 |
| APD-SD T1 (A) | 0.5 | 9611593-17 | 11/21/96 | 12/4/96 | 13 12/14/96 10 |

Summary of Wetland Sediment Sample Analyses
American Chemical Service
Griffith Indiana

| Sampleid | Depth | Lab # | Sample Date | Extract Date | Run Date | |
|--------------------------|-------|------------|-------------|--------------|----------|---------------|
| SDG 11595 | | IEA-NC | | | | |
| APD-SD T2 (D) | 1.0 | 9611595-09 | 11/20/96 | 12/4/96 | 14 | 12/19/96 15 |
| SDG 2581A | | IEA-CT | | | | |
| APD-SDC2 | 0.5 | 962581A-01 | 11/20/96 | 11/21/96 | 1 | 11/23/96 2 |
| APD-SDD3 | 0.5 | 962581A-02 | 11/20/96 | 11/21/96 | 1 | 11/23/96 2 |
| APD-SDC4 | 0.5 | 962581A-03 | 11/20/96 | 11/21/96 | 1 | 11/23/96 2 |
| APD-SDB5 | 0.5 | 962581A-04 | 11/20/96 | 11/21/96 | 1 | 11/23/96 2 |
| APD-SDC6 | 0.5 | 962581A-05 | 11/20/96 | 11/21/96 | 1 | 11/25/96 4 |
| APD-SDD7 | 0.5 | 962581A-06 | 11/20/96 | 11/21/96 | 1 | 11/24/96 3 |
| APD-SDC8 | 0.5 | 962581A-07 | 11/20/96 | 11/21/96 | 1 | 11/26/96 5 |
| APD-SDB9 | 0.5 | 962581A-08 | 11/20/96 | 11/21/96 | 1 | 11/26/96 5 |
| APD-SDC9 | 1.0 | 962581A-09 | 11/20/96 | 11/21/96 | 1 | 11/24/96 3 |
| APD-SDD9 | 0.5 | 962581A-10 | 11/20/96 | 11/21/96 | 1 | 11/25/96 4 |
| APD-SDT1 (B) | 0.5 | 962581A-11 | 11/20/96 | 11/21/96 | 1 | 11/26/96 5 |
| APD-SDT1 (C) | 0.5 | 962581A-12 | 11/20/96 | 11/21/96 | 1 | 11/26/96 5 |
| APD-SDT1 (D) | 0.5 | 962581A-13 | 11/20/96 | 11/21/96 | 1 | 11/26/96 5 |
| APD-SDT2 (B) | 0.5 | 962581A-14 | 11/20/96 | 11/21/96 | 1 | 11/26/96 5 |
| APD-SDT2 (C) | 0.5 | 962581A-15 | 11/20/96 | 11/21/96 | 1 | 11/25/96 4 |
| APD-SDT2 (D) | 0.5 | 962581A-16 | 11/20/96 | 11/21/96 | 1 | 11/25/96 4 |
| APD-SDT3 (B) | 0.5 | 962581A-17 | 11/20/96 | 11/21/96 | 1 | 11/25/96 4 |
| APD-SDT3 (C) | 1.0 | 962581A-18 | 11/20/96 | 11/21/96 | 1 | 11/25/96 4 |
| APD-SDT3 (D) | 0.5 | 962581A-19 | 11/20/96 | 11/21/96 | 1 | 11/25/96 4 |
| APD-SDB1 | 0.5 | 962581A-20 | 11/20/96 | 11/21/96 | 1 | 11/25/96 4 |
| SDG 2581B | | IEA-CT | | | | |
| APD-Culvert Outfall | 0.5 | 962581B-01 | 11/20/96 | 11/21/96 | 1 | 11/23/96 2 |
| APD-Culvert Downstream | 0.5 | 962581B-02 | 11/20/96 | 11/21/96 | 1 | 11/23/96 2 |
| APD-Culvert Upstream (1) | 0.5 | 962581B-03 | 11/20/96 | 11/21/96 | 1 | 11/24/96 3 |
| APD-SDC10 | 0.5 | 962581B-04 | 11/20/96 | 11/21/96 | 1 | 11/24/96 3 |
| APD-SDT4 (B) | 0.5 | 962581B-05 | 11/20/96 | 11/21/96 | 1 | 11/24/96 3 |
| APD-SDT4 (C) | 1.0 | 962581B-06 | 11/20/96 | 11/21/96 | 1 | 11/28/96 7 |
| APD-SDT4 (D) | 0.5 | 962581B-07 | 11/20/96 | 11/21/96 | 1 | 11/24/96 3 |
| APD-Culvert Upstream (2) | 0.5 | 962581B-08 | 11/20/96 | 11/21/96 | 1 | 11/29/96 8 |
| SDG 2645A | | IEA-CT | | | | |
| APD-SDB6 | 0.5 | 962645A-05 | 11/21/96 | 12/3/96 | 12 | 12/14/96 11 |
| APD-SD T1 (B) | 1.0 | 962645A-07 | 11/20/96 | 12/3/96 | 13 | 12/14/96 11 |
| APD-SD T2 (A) | 1.0 | 962645A-10 | 11/20/96 | 12/3/96 | 13 | 1/3/97 31 |
| APD-SD T3 (E) | 0.5 | 962645A-15 | 11/21/96 | 12/3/96 | 12 | 12/14/96 11 |
| APD-SD T1 (D) | 1.0 | 962645A-16 | 11/20/96 | 12/3/96 | 13 | 12/17/96 14 |
| APD-SD T3 (A) | 1.5 | 962645A-20 | 11/20/96 | 12/3/96 | 13 | 12/14/96 11 |
| SDG 2650A | | IEA-CT | | | | |
| APD-SDB10 | 0.5 | 962650A-01 | 11/21/96 | 12/4/96 | 13 | 12/14/96 10 |
| APD-SDA5 | 1.5 | 962650A-05 | 11/21/96 | 12/4/96 | 13 | 12/15/96 11 |
| APD-SDB4 | 0.5 | 962650A-07 | 11/21/96 | 12/4/96 | 13 | 12/15/96 11 |
| APD-SDB10 | 1.0 | 962650A-12 | 11/21/96 | 12/4/96 | 13 | 1/3/97 30 |
| APD-SDB8 | 0.5 | 962650A-13 | 11/21/96 | 12/4/96 | 13 | 12/15/96 11 |
| APD-SD T1 (C) | 1.0 | 962650A-17 | 11/21/96 | 12/4/96 | 13 | 12/15/96 11 |
| APD-SD T3 (A) | 1.0 | 962650A-18 | 11/21/96 | 12/4/96 | 13 | 1/3/97 30 |

PESTICIDE ORGANICS ANALYSIS DATA SHEET

1D

EPA SAMPLE NO.

APD-SDB5-1D

11-20-96

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: SAS No.: SDG No.:

Matrix: (soil/water): SOIL Lab Sample ID: 65603001

Sample wt/vol: 30 (g/ml) g Lab File ID: D4BCLP99I_024

Moisture: 22 decanted: N Date Received: 11/25/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/02/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/14/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y Sulfur Cleanup: X

| S NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | Q UG/KG |
|-------|----------|---|------------|
|-------|----------|---|------------|

| | | | |
|------------|--------------|----|---|
| 12674-11-2 | Aroclor-1016 | 42 | U |
| 11104-28-2 | Aroclor-1221 | 86 | U |
| 11141-16-5 | Aroclor-1232 | 42 | U |
| 53469-21-9 | Aroclor-1242 | 42 | U |
| 12672-29-6 | Aroclor-1248 | 42 | U |
| 11097-69-1 | Aroclor-1254 | 42 | U |
| 11096-82-5 | Aroclor-1260 | 42 | U |

FORM 1 PEST

OLM03.

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEETUUUU-47
EPA SAMPLE NO.

A65-SDC6-10'

Lab Name: IEA-NJ Contract: 68D50011 11-20-96

Lab Code: IEANJ Case No.: SAS No.: SDG No.:

Matrix: (soil/water) : SOIL Lab Sample ID: 65603003

Sample wt/vol: 30 (g/ml) g Lab File ID: D4BCLP99I_025

Moisture: 19 decanted: N Date Received: 11/25/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/02/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/14/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8 Sulfur Cleanup: Y

| AS NO. | COMPOUND | CONCENTRATION UNITS: Q (ug/L or ug/Kg) UG/KG | |
|--------|----------|---|--|
|--------|----------|---|--|

| | | | |
|------------|--------------|----|---|
| 12674-11-2 | Aroclor-1016 | 40 | U |
| 11104-28-2 | Aroclor-1221 | 82 | U |
| 11141-16-5 | Aroclor-1232 | 40 | U |
| 53469-21-9 | Aroclor-1242 | 40 | U |
| 12672-29-6 | Aroclor-1248 | 40 | U |
| 11097-69-1 | Aroclor-1254 | 40 | U |
| 11096-82-5 | Aroclor-1260 | 40 | U |

FORM 1 PEST

OLM03.0

VALIDATED

000051

EPA SAMPLE NO.

APP-SDC8-10'

11-20-96

ID
PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: IEA-NJ

Contract: 68D50011

Lab Code: IEANJ Case No.: SAS No.: SDG No.:

Matrix: (soil/water): SOIL

Lab Sample ID: 65603005

Sample wt/vol: 30 (g/ml) g

Lab File ID: D4BCLP99I 049

Moisture: 23 decanted: N

Date Received: 11/25/96

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 12/02/96

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 12/15/96

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6

Sulfur Cleanup: Y

AS NO.

COMPOUND

CONCENTRATION UNITS: Q
(ug/L or ug/Kg) ug/kg

| | | | |
|------------|--------------|----|---|
| 12674-11-2 | Aroclor-1016 | 43 | U |
| 11104-28-2 | Aroclor-1221 | 87 | U |
| 11141-16-5 | Aroclor-1232 | 43 | U |
| 53469-21-9 | Aroclor-1242 | 43 | U |
| 12672-29-6 | Aroclor-1248 | 68 | |
| 11097-69-1 | Aroclor-1254 | 52 | |
| 11096-82-5 | Aroclor-1260 | 43 | U |

FORM 1 PEST

OLM03.C

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET000053
EPA SAMPLE NO.

APP-SDB9-10'

11-20-96

Lab Name: IEA-NJ

Contract: 68D50011

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water): SOIL

Lab Sample ID: 65603007

Sample wt/vol: 30 (g/ml) g

Lab File ID: D4BCLP99I_047

Moisture: 21 decanted: N

Date Received: 11/25/96

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 12/02/96

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 12/15/96

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.5

Sulfur Cleanup: Y

| CAS NO. | COMPOUND | CONCENTRATION UNITS: Q (ug/L or ug/Kg) UG/KG | |
|---------|----------|---|--|
|---------|----------|---|--|

| | | | |
|------------|--------------|----|----|
| 12674-11-2 | Aroclor-1016 | 42 | U |
| 11104-28-2 | Aroclor-1221 | 84 | U |
| 11141-16-5 | Aroclor-1232 | 42 | U |
| 53469-21-9 | Aroclor-1242 | 42 | U |
| 12672-29-6 | Aroclor-1248 | 27 | JP |
| 11097-69-1 | Aroclor-1254 | 41 | JP |
| 11096-82-5 | Aroclor-1260 | 42 | U |

FORM 1 PEST

OLM03.0

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CULOUT-1'

Lab Name: IEA-NJ Contract: 68D50011 APD-Culvert Outfall-
 Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: 11-20-96
 Matrix: (soil/water): SOIL Lab Sample ID: 65603009
 Sample wt/vol: 30 (g/ml) g Lab File ID: D4BCLP99I_048
 Moisture: 35 decanted: N Date Received: 11/25/96
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/02/96
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/15/96
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: 7.1 Sulfur Cleanup: Y

| SAS NO. | COMPOUND | CONCENTRATION UNITS: | Q |
|------------|--------------|----------------------|-------|
| | | (ug/L or ug/Kg) | UG/KG |
| 12674-11-2 | Aroclor-1016 | 51 | U |
| 11104-28-2 | Aroclor-1221 | 100 | U |
| 11141-16-5 | Aroclor-1232 | 51 | U |
| 53469-21-9 | Aroclor-1242 | 51 | U |
| 12672-29-6 | Aroclor-1248 | 51 | U |
| 11097-69-1 | Aroclor-1254 | 28 | JP |
| 11096-82-5 | Aroclor-1260 | 51 | U |

FORM 1 PEST

OLMO

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET000075
EPA SAMPLE NO.

APD-SDD8-0.5'

11-20-96

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: SAS No.: SDG No.:

Matrix: (soil/water): SOIL Lab Sample ID: 65603012

Sample wt/vol: 30 (g/ml) g Lab File ID: D4BCLP99I_035

Moisture: 19 decanted: N Date Received: 11/25/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/02/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/15/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y Sulfur Cleanup: Y

| S NO. | COMPOUND | CONCENTRATION UNITS: | Q |
|------------|--------------|----------------------|-------|
| | | (ug/L or ug/Kg) | UG/KG |
| 12674-11-2 | Aroclor-1016 | 40 | U |
| 11104-28-2 | Aroclor-1221 | 82 | U |
| 11141-16-5 | Aroclor-1232 | 40 | U |
| 53469-21-9 | Aroclor-1242 | 40 | U |
| 12672-29-6 | Aroclor-1248 | 40 | U |
| 11097-69-1 | Aroclor-1254 | 44 | P |
| 11096-82-5 | Aroclor-1260 | 40 | U |

1-2897

FORM 1 PEST

OLM03.0

VALIDATED

PESTICIDE ORGANICS ANALYSIS DATA SHEET

ID

0000452
EPA SAMPLE NO.

APD SDD6-0.5'

Lab Name: IEA-NJ

Contract: 68D50011

11-20-96

Lab Code: JEANJ Case No.: SAS No.: SDG No.:

Matrix: (soil/water): SOIL

Lab Sample ID: 65603015

Sample wt/vol: 30 (g/ml) g

Lab File ID: D4BCLP99I_021

Moisture: 60 decanted: N

Date Received: 11/25/96

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 12/02/96

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 12/14/96

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.2

Sulfur Cleanup: Y

| S NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | Q UG/KG |
|-------|----------|---|------------|
|-------|----------|---|------------|

| | | | |
|------------|--------------|-----|---|
| 12674-11-2 | Aroclor-1016 | 82 | U |
| 11104-28-2 | Aroclor-1221 | 170 | U |
| 11141-16-5 | Aroclor-1232 | 82 | U |
| 53469-21-9 | Aroclor-1242 | 82 | U |
| 12672-29-6 | Aroclor-1248 | 82 | U |
| 11097-69-1 | Aroclor-1254 | 82 | U |
| 11096-82-5 | Aroclor-1260 | 82 | U |

FORM 1 PEST

OLM03.0

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET0000059
EPA SAMPLE NO.

APD SDC10-10

11-20-96

Lab Name: IEA-NJ

Contract: 68D50011

Lab Code: IEANJ Case No.: SAS No.: SDG No.:

Matrix: (soil/water): SOIL

Lab Sample ID: 65603017

Sample wt/vol: 30 (g/ml) g

Lab File ID: D4BCLP991 036

Moisture: 25 decanted: N

Date Received: 11/25/96

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 12/02/96

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 12/15/96

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7

Sulfur Cleanup: Y

| AS NO. | COMPOUND | CONCENTRATION UNITS: Q (ug/L or ug/Kg) UG/KG | |
|--------|----------|---|--|
|--------|----------|---|--|

| | | | |
|------------|--------------|----|---|
| 12674-11-2 | Aroclor-1016 | 44 | U |
| 11104-28-2 | Aroclor-1221 | 89 | U |
| 11141-16-5 | Aroclor-1232 | 44 | U |
| 53469-21-9 | Aroclor-1242 | 44 | U |
| 12672-29-6 | Aroclor-1248 | 71 | |
| 11097-69-1 | Aroclor-1254 | 73 | P |
| 11096-82-5 | Aroclor-1260 | 44 | U |

FORM 1 PEST

OLM03.0

VALIDATED

000095

EPA SAMPLE NO.

APD - SDT(E)-0.5'

11-21-96

ID
PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: IEA-NJ Contract: 68D50011

Lab Code: IEANJ Case No.: SAS No.: SDG No.:

Matrix: (soil/water) : SOIL Lab Sample ID: 65603023

Sample wt/vol: 30 (g/ml) g Lab File ID: D4BCLP99I_037

Moisture: 54 decanted: N Date Received: 11/25/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/02/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/15/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6 Sulfur Cleanup: Y

| AS NO. | COMPOUND | CONCENTRATION UNITS: | Q |
|--------|----------|----------------------|-------|
| | | (ug/L or ug/Kg) | UG/KG |

| | | | |
|------------|--------------|-----|----|
| 12674-11-2 | Aroclor-1016 | 72 | U |
| 11104-28-2 | Aroclor-1221 | 140 | U |
| 11141-16-5 | Aroclor-1232 | 72 | U |
| 53469-21-9 | Aroclor-1242 | 72 | U |
| 12672-29-6 | Aroclor-1248 | 57 | JP |
| 11097-69-1 | Aroclor-1254 | 180 | P |
| 11096-82-5 | Aroclor-1260 | 72 | U |

FORM 1 PEST

OLM03.0

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

000100

EPA SAMPLE NO.

APD-SDT2(A).5'

Lab Name: IEA-NJ Contract: 68D50011 11-20-96
Lab Code: IEANJ Case No.: SAS No.: SDG No.:
Matrix: (soil/water):SOIL Lab Sample ID: 65603032
Sample wt/vol: 30 (g/ml) g Lab File ID: D4BCLP99I 038
Moisture: 44 decanted: N Date Received: 11/25/96
Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/02/96
Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/15/96
Injection Volume: 1.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) Y pH: 6.2 Sulfur Cleanup: Y

| IS NO. | COMPOUND | CONCENTRATION UNITS: | Q |
|------------|--------------|----------------------|-------|
| | | (ug/L or ug/Kg) | UG/KG |
| 12674-11-2 | Aroclor-1016 | 59 | U |
| 11104-28-2 | Aroclor-1221 | 120 | U |
| 11141-16-5 | Aroclor-1232 | 59 | U |
| 53469-21-9 | Aroclor-1242 | 59 | U |
| 12672-29-6 | Aroclor-1248 | 59 | U |
| 11097-69-1 | Aroclor-1254 | 260 | P |
| 11096-82-5 | Aroclor-1260 | 59 | U |

FORM 1 PEST

OLM03.0

VALIDATED

000115

EPA SAMPLE NO.

APD-SDT2(E).5'

11-20-96

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEETLab Name: IEA-NJ Contract: 68D50011Lab Code: IEANJ Case No.: SAS No.: SDG No.: Matrix: (soil/water): SOIL Lab Sample ID: 65603034Sample wt/vol: 30 (g/ml) g Lab File ID: D4BCLP99I_039Moisture: 9 decanted: N Date Received: 11/25/96Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/02/96Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/15/96Injection Volume: 1.0 (uL) Dilution Factor: 1.0GPC Cleanup: (Y/N) Y pH: 5.3 Sulfur Cleanup: Y

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | Q UG/KG |
|---------|----------|---|------------|
|---------|----------|---|------------|

| | | | |
|------------|--------------|----|---|
| 12674-11-2 | Aroclor-1016 | 36 | U |
| 11104-28-2 | Aroclor-1221 | 74 | U |
| 11141-16-5 | Aroclor-1232 | 36 | U |
| 53469-21-9 | Aroclor-1242 | 36 | U |
| 12672-29-6 | Aroclor-1248 | 36 | U |
| 11097-69-1 | Aroclor-1254 | 36 | U |
| 11096-82-5 | Aroclor-1260 | 36 | U |

FORM 1 PEST

OLM03

VALIDATED

PESTICIDE ORGANICS ANALYSIS DATA SHEET

1D

000122
EPA SAMPLE NO.

APD SDT(A)Q5'

11-20-96

Lab Name: IEA-NJContract: 68D50011Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____Matrix: (soil/water): SOILLab Sample ID: 65603036Sample wt/vol: 30 (g/ml) gLab File ID: D4BCLP99I_040Moisture: 21 decanted: NDate Received: 11/25/96Extraction: (SepF/Cont/Sonc) SONCDate Extracted: 12/02/96Concentrated Extract Volume: 5000 (uL)Date Analyzed: 12/15/96Injection Volume: 1.0 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) Y pH: 6.7Sulfur Cleanup: Y

CAS NO.

COMPOUND

CONCENTRATION UNITS: Q
(ug/L or ug/Kg) UG/KG

| | | | |
|-------------------|---------------------|--------------|------------|
| <u>12674-11-2</u> | <u>Aroclor-1016</u> | <u>42</u> | <u>U</u> |
| <u>11104-28-2</u> | <u>Aroclor-1221</u> | <u>84</u> | <u>U</u> |
| <u>11141-16-5</u> | <u>Aroclor-1232</u> | <u>42</u> | <u>U</u> |
| <u>53469-21-9</u> | <u>Aroclor-1242</u> | <u>42</u> | <u>U</u> |
| <u>12672-29-6</u> | <u>Aroclor-1248</u> | <u>5,000</u> | <u>EPD</u> |
| <u>11097-69-1</u> | <u>Aroclor-1254</u> | <u>6,600</u> | <u>EPD</u> |
| <u>11096-82-5</u> | <u>Aroclor-1260</u> | <u>42</u> | <u>U</u> |

FORM 1 PEST

OLM03.0

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

000131
EPA SAMPLE NO.
SDT3A-.5'DL

Lab Name: IEA-NJ Contract: 68D50011
 Lab Code: IEANJ Case No.: SAS No.: SDG No.:
 Matrix: (soil/water) : SOIL Lab Sample ID: 65603036DL
 Sample wt/vol: 30 (g/ml) g Lab File ID: D4BCLP99A_013
 Moisture: 21 decanted: N Date Received: 11/25/96
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/02/96
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/17/96
 Injection Volume: 1.0 (uL) Dilution Factor: 10.0
 GPC Cleanup: (Y/N) Y pH: 6.7 Sulfur Cleanup: Y

| SAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | Q |
|---------|----------|---|---|
|---------|----------|---|---|

| | | | |
|------------|--------------|------|----|
| 12674-11-2 | Aroclor-1016 | 420 | U |
| 11104-28-2 | Aroclor-1221 | 840 | U |
| 11141-16-5 | Aroclor-1232 | 420 | U |
| 53469-21-9 | Aroclor-1242 | 420 | U |
| 12672-29-6 | Aroclor-1248 | 5000 | PD |
| 11097-69-1 | Aroclor-1254 | 6600 | PD |
| 11096-82-5 | Aroclor-1260 | 420 | U |

FORM 1 PEST

OLM03:

VALIDATED

000138

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APD-SDT3 (B) - 1.0'

Lab Name: IEA-NJContract: 68D50011

11-20-96

Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____Matrix: (soil/water): SOIL Lab Sample ID: 65603038Sample wt/vol: 30 (g/ml) g Lab File ID: D4BCLP99I_042Moisture: 38 decanted: N Date Received: 11/25/96Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/02/96Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/15/96Injection Volume: 1.0 (uL) Dilution Factor: 10.0GPC Cleanup: (Y/N) Y pH: 6.2 Sulfur Cleanup: Y

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | Q |
|---------|----------|----------------------|--------------|
| | | (ug/L or ug/Kg) | <u>UG/KG</u> |

| | | | |
|------------|--------------|--------|-----|
| 12674-11-2 | Aroclor-1016 | 530 | U |
| 11104-28-2 | Aroclor-1221 | 1100 | U |
| 11141-16-5 | Aroclor-1232 | 530 | U |
| 53469-21-9 | Aroclor-1242 | 530 | U |
| 12672-29-6 | Aroclor-1248 | 13000 | E D |
| 11097-69-1 | Aroclor-1254 | 14,000 | E D |
| 11096-82-5 | Aroclor-1260 | 530 | U |

FORM 1 PEST

OLM03.0

VALIDATED

000135

EPA SAMPLE NO

SDT3(B)-1.0'1

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEETLab Name: IEA-NJContract: 68D50011Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____Matrix: (soil/water):SOILLab Sample ID: 65603038DLSample wt/vol: 30 (g/ml) gLab File ID: D4BCLP99I_041Moisture: 38 decanted: NDate Received: 11/25/96Extraction: (SepF/Cont/Sonc) SONCDate Extracted: 12/02/96Concentrated Extract Volume: 5000 (uL)Date Analyzed: 12/15/96Injection Volume: 1.0 (uL)Dilution Factor: 100.0GPC Cleanup: (Y/N)Y pH:6.2Sulfur Cleanup: Y

CAS NO.

COMPOUND

CONCENTRATION UNITS: Q
(ug/L or ug/Kg) UG/KG

| | | | |
|-------------------|---------------------|--------------|-----------|
| <u>12674-11-2</u> | <u>Aroclor-1016</u> | <u>5300</u> | <u>U</u> |
| <u>11104-28-2</u> | <u>Aroclor-1221</u> | <u>11000</u> | <u>U</u> |
| <u>11141-16-5</u> | <u>Aroclor-1232</u> | <u>5300</u> | <u>U</u> |
| <u>53469-21-9</u> | <u>Aroclor-1242</u> | <u>5300</u> | <u>U</u> |
| <u>12672-29-6</u> | <u>Aroclor-1248</u> | <u>13000</u> | <u>PD</u> |
| <u>11097-69-1</u> | <u>Aroclor-1254</u> | <u>14000</u> | <u>PD</u> |
| <u>11096-82-5</u> | <u>Aroclor-1260</u> | <u>5300</u> | <u>U</u> |

FORM 1 PEST

OLMO

VALIDATED

000152

EPA SAMPLE NO.

ARD-SDT3(B) 1.S

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

- Lab Name: IEA-NJ Contract: 68D50011 11-20-96
 Lab Code: IEANJ Case No.: _____ SAS No.: _____ SDG No.: _____
 Matrix: (soil/water): SOIL Lab Sample ID: 65603039
 Sample wt/vol: 30 (g/ml) g Lab File ID: D4BCLP99H_071
 Moisture: 28 decanted: N Date Received: 11/25/96
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/02/96
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 01/06/97
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: 6.2 Sulfur Cleanup: Y

| CAS NO. | COMPOUND | CONCENTRATION UNITS: Q (ug/L or ug/Kg) UG/KG | |
|------------|--------------|---|-----|
| 12674-11-2 | Aroclor-1016 | 46 | U |
| 11104-28-2 | Aroclor-1221 | 93 | U |
| 11141-16-5 | Aroclor-1232 | 46 | U |
| 53469-21-9 | Aroclor-1242 | 46 | U |
| 12672-29-6 | Aroclor-1248 | 2200 2300 | EPD |
| 11097-69-1 | Aroclor-1254 | 1500 2400 | EPB |
| 11096-82-5 | Aroclor-1260 | 46 | U |

FORM 1 PEST

OLM03.0

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLING

APD-SDT3B-1

Lab Name: IEA-NJ Contract: 68D20022Lab Code: IEANJ Case No.: SAS No.: SDG No.: Matrix: (soil/water): SOILLab Sample ID: 65603039DLSample wt/vol: 30 (g/ml) gLab File ID: D4BCLP99J 022Moisture: 28 decanted: NDate Received: 11/25/96Extraction: (SepF/Cont/Sonc) SONCDate Extracted: 12/02/96Concentrated Extract Volume: 5000 (uL)Date Analyzed: 01/07/97Injection Volume: 1.0 (uL)Dilution Factor: 10.0GPC Cleanup: (Y/N) Y pH: 6.2Sulfur Cleanup: Y

CAS NO.

COMPOUND

CONCENTRATION UNITS: Q
(ug/L or ug/Kg) UG/KG

| | | | |
|-------------------|---------------------|-------------|------------|
| <u>12674-11-2</u> | <u>Aroclor-1016</u> | <u>460</u> | <u>U</u> |
| <u>11104-28-2</u> | <u>Aroclor-1221</u> | <u>930</u> | <u>U</u> |
| <u>11141-16-5</u> | <u>Aroclor-1232</u> | <u>460</u> | <u>U</u> |
| <u>53469-21-9</u> | <u>Aroclor-1242</u> | <u>460</u> | <u>U</u> |
| <u>12672-29-6</u> | <u>Aroclor-1248</u> | <u>2200</u> | <u>PD</u> |
| <u>11097-69-1</u> | <u>Aroclor-1254</u> | <u>1800</u> | <u>PDB</u> |
| <u>11096-82-5</u> | <u>Aroclor-1260</u> | <u>460</u> | <u>U</u> |

FORM 1 PEST

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APD-SDT(3)-10'

Lab Name: IEA-NJ Contract: 68D50011 11-20-96
Lab Code: IEANJ Case No.: SAS No.: SDG No.:
Matrix: (soil/water): SOIL Lab Sample ID: 65603040
Sample wt/vol: 30 (g/ml) g Lab File ID: D4BCLP99I_043
Moisture: 24 decanted: N Date Received: 11/25/96
Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/02/96
Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/15/96
Injection Volume: 1.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) Y pH: 6.7 Sulfur Cleanup: Y

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | Q UG/KG |
|------------|--------------|---|------------|
| 12674-11-2 | Aroclor-1016 | 44 | U |
| 11104-28-2 | Aroclor-1221 | 88 | U |
| 11141-16-5 | Aroclor-1232 | 44 | U |
| 53469-21-9 | Aroclor-1242 | 44 | U |
| 12672-29-6 | Aroclor-1248 | 61 | P |
| 11097-69-1 | Aroclor-1254 | 89 | P |
| 11096-82-5 | Aroclor-1260 | 44 | U |

FORM 1 PEST

OLM03.0

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

APF-SDA10-0.5'
11-21-96

Lab Name: INDUSTRIAL & ENVIRONMENTAL Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-016

SDG No.: 12560

Matrix: (soil/water) SOIL

Lab Sample ID: 961256009

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: P2010697_099.D

% Moisture: 36 decanted: (Y/N) N

Date Received: 11/25/96

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 12/04/96

Concentrated Extract Volume: 5000(uL)

Date Analyzed: 01/10/97

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | UG/KG | Q |
|---------|----------|---|-------|---|
|---------|----------|---|-------|---|

| | | | | |
|-----------------|--------------|--|-----|---|
| 12674-11-2----- | Aroclor-1016 | | 51 | U |
| 11104-28-2----- | Aroclor-1221 | | 100 | U |
| 11141-16-5----- | Aroclor-1232 | | 51 | U |
| 53469-21-9----- | Aroclor-1242 | | 51 | U |
| 12672-29-6----- | Aroclor-1248 | | 51 | U |
| 11097-69-1----- | Aroclor-1254 | | 51 | U |
| 11096-82-5----- | Aroclor-1260 | | 51 | U |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

Lab Name: INDUSTRIAL & ENVIRONMENTAL Contract: SOW 1/91

APD - SDB705'
11-21-96

Lab Code: IEA Case No.: 2240-016

SDG No.: 12560

Matrix: (soil/water) SOIL

Lab Sample ID: 961256002

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: P1010697_142.D

% Moisture: 38 decanted: (Y/N) N

Date Received: 11/25/96

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 12/04/96

Concentrated Extract Volume: 5000(uL)

Date Analyzed: 01/12/97

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

Sulfur Cleanup: (Y/N) Y

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Q

| | | | | |
|-----------------|--------------|-----|--|---|
| CAS NO. | COMPOUND | | | |
| 12674-11-2----- | Aroclor-1016 | 53 | | U |
| 11104-28-2----- | Aroclor-1221 | 110 | | U |
| 11141-16-5----- | Aroclor-1232 | 53 | | U |
| 53469-21-9----- | Aroclor-1242 | 53 | | U |
| 12672-29-6----- | Aroclor-1248 | 370 | | |
| 11097-69-1----- | Aroclor-1254 | 310 | | P |
| 11096-82-5----- | Aroclor-1260 | 220 | | P |

FORM I PEST

VALIDATED

3/90

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

Lab Name: INDUSTRIAL & ENVIRONMENTAL Contract: SOW 1/91

APP - SDC11-1.0
1/21/96

Lab Code: IEA Case No.: 2240-016

SDG No.: 12560

Matrix: (soil/water) SOIL

Lab Sample ID: 961256005

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: P2010697_137.D

Moisture: 27 decanted: (Y/N) N

Date Received: 11/25/96

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 12/04/96

Concentrated Extract Volume: 5000(uL)

Date Analyzed: 01/12/97

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | UG/KG | Q |
|---------|----------|---|-------|---|
|---------|----------|---|-------|---|

| | | | | |
|-----------------|--------------|--|-----|---|
| 12674-11-2----- | Aroclor-1016 | | 45 | U |
| 11104-28-2----- | Aroclor-1221 | | 91 | U |
| 11141-16-5----- | Aroclor-1232 | | 45 | U |
| 53469-21-9----- | Aroclor-1242 | | 45 | U |
| 12672-29-6----- | Aroclor-1248 | | 730 | |
| 11097-69-1----- | Aroclor-1254 | | 440 | P |
| 11096-82-5----- | Aroclor-1260 | | 280 | |

VALIDATED

FORM I PEST

**1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET**

CLIENT SAMPLE NO.

APD-SDC505
11-21-96

Lab Name: INDUSTRIAL & ENVIRONMENTAL Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-016

SDG No.: 12560

Matrix: (soil/water) SOIL

Lab Sample ID: 961256006

Sample wt/vol: 30.2 (g/mL) G

Lab File ID: P2010697_126.D

% Moisture: 39 decanted: (Y/N) N

Date Received: 11/25/96

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 12/03/96

Concentrated Extract Volume: 5000(uL)

Date Analyzed: 01/12/97

Injection Volume: 1.0(uL)

Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 7.0

Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | | |
|-----------------|--------------|----------------------|-------|---|
| | | (ug/L or ug/Kg) | UG/KG | Q |
| 12674-11-2----- | Aroclor-1016 | | 270 | U |
| 11104-28-2----- | Aroclor-1221 | | 540 | U |
| 11141-16-5----- | Aroclor-1232 | | 270 | U |
| 53469-21-9----- | Aroclor-1242 | | 270 | U |
| 12672-29-6----- | Aroclor-1248 | | 490 | P |
| 11097-69-1----- | Aroclor-1254 | | 440 | |
| 11096-82-5----- | Aroclor-1260 | | 490 | P |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

APD-SDC510
11-21-96

Lab Name: INDUSTRIAL & ENVIRONMENTAL Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-016

SDG No.: 12560

Matrix: (soil/water) SOIL

Lab Sample ID: 961256004

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: P2010697_124.D

% Moisture: 39 decanted: (Y/N) N

Date Received: 11/25/96

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 12/04/96

Concentrated Extract Volume: 5000(uL)

Date Analyzed: 01/12/97

Injection Volume: 1.0(uL)

Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 7.0

Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | | Q |
|-----------------|--------------|---|------|---|
| | | | | |
| 12674-11-2----- | Aroclor-1016 | | 270 | U |
| 11104-28-2----- | Aroclor-1221 | | 550 | U |
| 11141-16-5----- | Aroclor-1232 | | 270 | U |
| 53469-21-9----- | Aroclor-1242 | | 270 | U |
| 12672-29-6----- | Aroclor-1248 | | 1600 | |
| 11097-69-1----- | Aroclor-1254 | | 1000 | P |
| 11096-82-5----- | Aroclor-1260 | | 1000 | |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

APP-SDC7-1.0
11-21-96

Lab Name: INDUSTRIAL & ENVIRONMENTAL Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-016

SDG No.: 12560

Matrix: (soil/water) SOIL

Lab Sample ID: 961256001

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: P2010697_122.D

% Moisture: 30 decanted: (Y/N) N

Date Received: 11/25/96

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 12/04/96

Concentrated Extract Volume: 5000(uL)

Date Analyzed: 01/12/97

Injection Volume: 1.0(uL)

Dilution Factor: 100.0

GPC Cleanup: (Y/N) Y pH: 7.0

Sulfur Cleanup: (Y/N) Y

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | |
|---------|----------|----------------------|-------|
| | | (ug/L or ug/Kg) | UG/KG |

| | | | |
|-----------------|--------------|-------|---|
| 12674-11-2----- | Aroclor-1016 | 4700 | U |
| 11104-28-2----- | Aroclor-1221 | 9600 | U |
| 11141-16-5----- | Aroclor-1232 | 4700 | U |
| 53469-21-9----- | Aroclor-1242 | 4700 | U |
| 12672-29-6----- | Aroclor-1248 | 11000 | P |
| 11097-69-1----- | Aroclor-1254 | 6300 | P |
| 11096-82-5----- | Aroclor-1260 | 13000 | P |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

APD-SDD11-0.5'
11-21-96

Lab Name: INDUSTRIAL & ENVIRONMENTAL Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-016

SDG No.: 12560

Matrix: (soil/water) SOIL

Lab Sample ID: 961256003

Sample wt/vol: 30.2 (g/mL) G

Lab File ID: P2010697_097.D

% Moisture: 65 decanted: (Y/N) N

Date Received: 11/25/96

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 12/04/96

Concentrated Extract Volume: 5000(uL)

Date Analyzed: 01/10/97

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Q

| | | | |
|-----------------------------|--|-----|---|
| 12674-11-2-----Aroclor-1016 | | 94 | U |
| 11104-28-2-----Aroclor-1221 | | 190 | U |
| 11141-16-5-----Aroclor-1232 | | 94 | U |
| 53469-21-9-----Aroclor-1242 | | 94 | U |
| 12672-29-6-----Aroclor-1248 | | 680 | P |
| 11097-69-1-----Aroclor-1254 | | 940 | |
| 11096-82-5-----Aroclor-1260 | | 540 | |
| | | | |
| | | | |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

Lab Name: INDUSTRIAL & ENVIRONMENTAL Contract: SOW 1/91

APP-SDT2(C)-1.S'
11-20-96

Lab Code: IEA Case No.: 2240-016

SDG No.: 12560

Matrix: (soil/water) SOIL

Lab Sample ID: 961256007

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: P2010697_127.D

% Moisture: 31 decanted: (Y/N) N

Date Received: 11/25/96

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 12/04/96

Concentrated Extract Volume: 5000(uL)

Date Analyzed: 01/12/97

Injection Volume: 1.0(uL)

Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.0

Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q | | |
|-----------------|--------------|---|---|--|
| 12674-11-2----- | Aroclor-1016 | 480 | U | |
| 11104-28-2----- | Aroclor-1221 | 970 | U | |
| 11141-16-5----- | Aroclor-1232 | 480 | U | |
| 53469-21-9----- | Aroclor-1242 | 480 | U | |
| 12672-29-6----- | Aroclor-1248 | 1300 | | |
| 11097-69-1----- | Aroclor-1254 | 1000 | | |
| 11096-82-5----- | Aroclor-1260 | 720 | P | |

VALIDATED

ID
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

Lab Name: INDUSTRIAL & ENVIRONMENTAL Contract: SOW 1/91

APD-SDT2(D)-1.5'
11-20-96

Lab Code: IEA Case No.: 2240-016

SDG No.: 12560

Matrix: (soil/water) SOIL

Lab Sample ID: 961256008

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: P2010697_098.I

% Moisture: 36 decanted: (Y/N) N

Date Received: 11/25/96

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 12/04/96

Concentrated Extract Volume: 5000(uL)

Date Analyzed: 01/10/97

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | UG/KG | Q |
|---------|----------|---|-------|---|
|---------|----------|---|-------|---|

| | | | | |
|-----------------|--------------|--|-----|---|
| 12674-11-2----- | Aroclor-1016 | | 52 | U |
| 11104-28-2----- | Aroclor-1221 | | 100 | U |
| 11141-16-5----- | Aroclor-1232 | | 52 | U |
| 53469-21-9----- | Aroclor-1242 | | 52 | U |
| 12672-29-6----- | Aroclor-1248 | | 510 | — |
| 11097-69-1----- | Aroclor-1254 | | 310 | — |
| 11096-82-5----- | Aroclor-1260 | | 140 | P |

VALIDATED

FORM I PEST

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-SDB11-o.s
11-21-96

Lab Name: INDUSTRIAL & ENVIRONMENTAL Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-017

SDG No.: 01189

Matrix: (soil/water) SOIL

Lab Sample ID: 970118902

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: P4010997_070.D

% Moisture: 42 decanted: (Y/N) N

Date Received: 11/25/96

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 01/14/97

Concentrated Extract Volume: 5000(uL)

Date Analyzed: 01/21/97

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 4.7

Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|-----------------|--------------|---|---|
| 12674-11-2----- | Aroclor-1016 | 57 | U |
| 11104-28-2----- | Aroclor-1221 | 120 | U |
| 11141-16-5----- | Aroclor-1232 | 57 | U |
| 53469-21-9----- | Aroclor-1242 | 57 | U |
| 12672-29-6----- | Aroclor-1248 | 57 | U |
| 11097-69-1----- | Aroclor-1254 | 170 | U |
| 11096-82-5----- | Aroclor-1260 | 84 | U |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-SDT4(A)-o.s'
11-21-96

Lab Name: INDUSTRIAL & ENVIRONMENTAL Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-017

SDG No.: 01189

Matrix: (soil/water) SOIL

Lab Sample ID: 970118901

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: P4010997_069.D

% Moisture: 20 decanted: (Y/N) N

Date Received: 11/25/96

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 01/14/97

Concentrated Extract Volume: 5000(uL)

Date Analyzed: 01/21/97

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 4.3

Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---------|----------|---|---|
|---------|----------|---|---|

| | | | |
|-----------------|--------------|----|---|
| 12674-11-2----- | Aroclor-1016 | 41 | U |
| 11104-28-2----- | Aroclor-1221 | 84 | U |
| 11141-16-5----- | Aroclor-1232 | 41 | U |
| 53469-21-9----- | Aroclor-1242 | 41 | U |
| 12672-29-6----- | Aroclor-1248 | 41 | U |
| 11097-69-1----- | Aroclor-1254 | 41 | U |
| 11096-82-5----- | Aroclor-1260 | 41 | U |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

APP- SDC5- 1.S'
11-21-97

Lab Name: INDUSTRIAL & ENVIRONMENTAL Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-018

SDG No.: 01349

Matrix: (soil/water) SOIL

Lab Sample ID: 970134903

Sample wt/vol: 30.2 (g/mL) G

Lab File ID: P1012597_039.D

% Moisture: 21 ✓ decanted: (Y/N) N

Date Received: 11/25/96

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 12/04/96

Concentrated Extract Volume: 5000(uL)

Date Analyzed: 01/28/97

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

| CAS NO. | COMPOUND | UG/KG | Q |
|-----------------|--------------|-------|---|
| 12674-11-2----- | Aroclor-1016 | 41 | U |
| 11104-28-2----- | Aroclor-1221 | 84 | U |
| 11141-16-5----- | Aroclor-1232 | 41 | U |
| 53469-21-9----- | Aroclor-1242 | 41 | U |
| 12672-29-6----- | Aroclor-1248 | 41 | U |
| 11097-69-1----- | Aroclor-1254 | 41 | U |
| 11096-82-5----- | Aroclor-1260 | 41 | U |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

APP-SDC7-1.S'
11-21-97

Lab Name: INDUSTRIAL & ENVIRONMENTAL Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-018

SDG No.: 01349

Matrix: (soil/water) SOIL

Lab Sample ID: 970134902

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: P1012597_038.D

% Moisture: 18 decanted: (Y/N) N

Date Received: 11/25/96

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 12/03/96

Concentrated Extract Volume: 5000(uL)

Date Analyzed: 01/28/97

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Q

| | | | |
|-----------------------------|--|----|---|
| 12674-11-2-----Aroclor-1016 | | 40 | U |
| 11104-28-2-----Aroclor-1221 | | 81 | U |
| 11141-16-5-----Aroclor-1232 | | 40 | U |
| 53469-21-9-----Aroclor-1242 | | 40 | U |
| 12672-29-6-----Aroclor-1248 | | 40 | U |
| 11097-69-1-----Aroclor-1254 | | 40 | U |
| 11096-82-5-----Aroclor-1260 | | 40 | U |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PAS-SDC11-1.S'
11-21-96

Lab Name: INDUSTRIAL & ENVIRONMENTAL Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-018

SDG No.: 01349

Matrix: (soil/water) SOIL

Lab Sample ID: 970134901

Sample wt/vol: 30.2 (g/mL) G

Lab File ID: P1012597_037.D

% Moisture: 22 decanted: (Y/N) N

Date Received: 11/25/96

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 12/03/96

Concentrated Extract Volume: 5000(uL)

Date Analyzed: 01/28/97

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.4

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

| CAS NO. | COMPOUND | UG/KG | Q |
|-----------------|--------------|-------|----|
| 12674-11-2----- | Aroclor-1016 | 42 | U |
| 11104-28-2----- | Aroclor-1221 | 85 | U |
| 11141-16-5----- | Aroclor-1232 | 42 | U |
| 53469-21-9----- | Aroclor-1242 | 42 | U |
| 12672-29-6----- | Aroclor-1248 | 36 | JP |
| 11097-69-1----- | Aroclor-1254 | 20 | J |
| 11096-82-5----- | Aroclor-1260 | 42 | U |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

APP-SDD11-1.0
11-21-96

Lab Name: INDUSTRIAL & ENVIRONMENTAL Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-018

SDG No.: 01349

Matrix: (soil/water) SOIL

Lab Sample ID: 970134904

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: P1012597_040.D

% Moisture: 22 decanted: (Y/N) N

Date Received: 11/25/96

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 12/04/96

Concentrated Extract Volume: 5000(uL)

Date Analyzed: 01/28/97

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.7

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Q

| | | | |
|-----------------------------|----|----|----|
| 12674-11-2-----Aroclor-1016 | WT | 42 | U |
| 11104-28-2-----Aroclor-1221 | WT | 86 | U |
| 11141-16-5-----Aroclor-1232 | WT | 42 | U |
| 53469-21-9-----Aroclor-1242 | WT | 42 | U |
| 12672-29-6-----Aroclor-1248 | J | 16 | JP |
| 11097-69-1-----Aroclor-1254 | J | 38 | J |
| 11096-82-5-----Aroclor-1260 | WJ | 42 | U |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SDC7-O,5'
11-21-96

Lab Name: INDUSTRIAL & ENVIRONMENTAL Contract: SOW 1/91
 Lab Code: IEA Case No.: 2240-011 SDG No.: 11589
 Matrix: (soil/water) SOIL Lab Sample ID: 961158907
 Sample wt/vol: 30.1 (g/mL) G Lab File ID: P2121896_051.D
 % Moisture: 42 decanted: (Y/N) N Date Received: 11/25/96
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/03/96
 Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/20/96
 Injection Volume: 1.0(uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q | | |
|-----------------|--------------|---|-----|-----|
| | | 57 | 120 | U |
| 12674-11-2----- | Aroclor-1016 | | | |
| 11104-28-2----- | Aroclor-1221 | | | |
| 11141-16-5----- | Aroclor-1232 | | | |
| 53469-21-9----- | Aroclor-1242 | | | |
| 12672-29-6----- | Aroclor-1248 | | | |
| 11097-69-1----- | Aroclor-1254 | | | |
| 11096-82-5----- | Aroclor-1260 | | | |
| | | 400 | 350 | JDP |
| | | 520 | 460 | JDP |
| | | 310 | 260 | JDP |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SDC7DL

Lab Name: INDUSTRIAL & ENVIRONMENTAL Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-011

SDG No.: 11589

Matrix: (soil/water) SOIL

Lab Sample ID: 961158907DL

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: P2121896_078.D

% Moisture: 42 decanted: (Y/N) N

Date Received: 11/25/96

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 12/03/96

Concentrated Extract Volume: 5000(uL)

Date Analyzed: 12/25/96

Injection Volume: 1.0(uL)

Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.0

Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|-----------------|--------------|---|-----|
| 12674-11-2----- | Aroclor-1016 | 570 | U |
| 11104-28-2----- | Aroclor-1221 | 1200 | U |
| 11141-16-5----- | Aroclor-1232 | 570 | U |
| 53469-21-9----- | Aroclor-1242 | 570 | U |
| 12672-29-6----- | Aroclor-1248 | 400 | DJP |
| 11097-69-1----- | Aroclor-1254 | 520 | DJP |
| 11096-82-5----- | Aroclor-1260 | 310 | DJP |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SDT2(B)-1.C
11-21-96

Lab Name: INDUSTRIAL & ENVIRONMENTAL Contract: SOW 1/91

SDG No.: 11589

Matrix: (soil/water) SOIL

Lab Sample ID: 961158908

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: P2121896_052.D

* Moisture: 37 decanted: (Y/N) N

Date Received: 11/25/96

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 12/03/96

Concentrated Extract Volume: 5000(uL)

Date Analyzed: 12/20/96

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | UG/KG | Q |
|---------|----------|---|-------|---|
|---------|----------|---|-------|---|

| | | | | |
|-----------------|--------------|--|-----|---|
| 12674-11-2----- | Aroclor-1016 | | 52 | U |
| 11104-28-2----- | Aroclor-1221 | | 100 | U |
| 11141-16-5----- | Aroclor-1232 | | 52 | U |
| 53469-21-9----- | Aroclor-1242 | | 52 | U |
| 12672-29-6----- | Aroclor-1248 | | 180 | P |
| 11097-69-1----- | Aroclor-1254 | | 200 | P |
| 11096-82-5----- | Aroclor-1260 | | 100 | |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SDTZ(C)-1.0
11-20-96

Lab Name: INDUSTRIAL & ENVIRONMENTAL Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-011

SDG No.: 11589

Matrix: (soil/water) SOIL

Lab Sample ID: 961158916

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: P2121896_053.D

* Moisture: 32 decanted: (Y/N) N

Date Received: 11/25/96

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 12/03/96

Concentrated Extract Volume: 5000(uL)

Date Analyzed: 12/20/96

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

Sulfur Cleanup: (Y/N). N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | UG/KG | Q |
|-----------------|--------------|---|------------|-----|
| 12674-11-2----- | Aroclor-1016 | | 48 | U |
| 11104-28-2----- | Aroclor-1221 | | 98 | U |
| 11141-16-5----- | Aroclor-1232 | | 48 | U |
| 53469-21-9----- | Aroclor-1242 | | 48 | U |
| 12672-29-6----- | Aroclor-1248 | | 1,800 1400 | DCP |
| 11097-69-1----- | Aroclor-1254 | | 2,000 1900 | DCP |
| 11096-82-5----- | Aroclor-1260 | | 960 880 | D P |

FORM I PEST

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SDT2CDL

Lab Name: INDUSTRIAL & ENVIRONMENTAL Contract: SOW 1/91

SDG No.: 11589

Matrix: (soil/water) SOIL

Lab Sample ID: 961158916DL

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: P2121896_079.D

% Moisture: 32 decanted: (Y/N) N

Date Received: 11/25/96

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 12/03/96

Concentrated Extract Volume: 5000(uL)

Date Analyzed: 12/25/96

Injection Volume: 1.0(uL)

Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.0

Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|-----------------|--------------|---|-----|
| 12674-11-2----- | Aroclor-1016 | 480 | U |
| 11104-28-2----- | Aroclor-1221 | 980 | U |
| 11141-16-5----- | Aroclor-1232 | 480 | U |
| 53469-21-9----- | Aroclor-1242 | 480 | U |
| 12672-29-6----- | Aroclor-1248 | 1800 | CDP |
| 11097-69-1----- | Aroclor-1254 | 2000 | CDP |
| 11096-82-5----- | Aroclor-1260 | 960 | DP |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SDA2-0.5
11-21-96

Lab Name: INDUSTRIAL & ENVIRONMENTAL Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-012

SDG No.: 11591

Matrix: (soil/water) SOIL

Lab Sample ID: 961159112

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: P2111196_282.D

% Moisture: 45 decanted: (Y/N) N

Date Received: 11/25/96

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 12/04/96

Concentrated Extract Volume: 5000(uL)

Date Analyzed: 12/15/96

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | UG/KG | Q |
|-----------------|--------------|---|-------|---|
| 12674-11-2----- | Aroclor-1016 | | 60 | U |
| 11104-28-2----- | Aroclor-1221 | | 120 | U |
| 11141-16-5----- | Aroclor-1232 | | 60 | U |
| 53469-21-9----- | Aroclor-1242 | | 60 | U |
| 12672-29-6----- | Aroclor-1248 | | 100 | P |
| 11097-69-1----- | Aroclor-1254 | | 70 | P |
| 11096-82-5----- | Aroclor-1260 | | 53 | J |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SDA5-0.5

Lab Name: INDUSTRIAL & ENVIRONMENTAL Contract: SOW 1/91

- Lab Code: IEA Case No.: 2240-012

SDG No.: 11591

Matrix: (soil/water) SOIL

Lab Sample ID: 961159120

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: P1121296_037.D

% Moisture: 55 decanted: (Y/N) N

Date Received: 11/25/96

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 12/04/96

Concentrated Extract Volume: 5000(uL)

Date Analyzed: 12/14/96

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | | Q |
|-----------------|--------------|---|---|---|
| | | | | |
| 12674-11-2----- | Aroclor-1016 | 73 | U | |
| 11104-28-2----- | Aroclor-1221 | 150 | U | |
| 11141-16-5----- | Aroclor-1232 | 73 | U | |
| 53469-21-9----- | Aroclor-1242 | 73 | U | |
| 12672-29-6----- | Aroclor-1248 | 160 | P | |
| 11097-69-1----- | Aroclor-1254 | 320 | | |
| 11096-82-5----- | Aroclor-1260 | 270 | P | |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SDA9-0.5
11-21-96

Lab Name: INDUSTRIAL & ENVIRONMENTAL Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-012

SDG No.: 11591

Matrix: (soil/water) SOIL

Lab Sample ID: 961159115

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: P1121296_036.D

% Moisture: 44 decanted: (Y/N) N

Date Received: 11/25/96

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 12/04/96

Concentrated Extract Volume: 5000(uL)

Date Analyzed: 12/14/96

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Q

| | | |
|-----------------------------|-----|----|
| 12674-11-2-----Aroclor-1016 | 59 | U |
| 11104-28-2-----Aroclor-1221 | 120 | U |
| 11141-16-5-----Aroclor-1232 | 59 | U |
| 53469-21-9-----Aroclor-1242 | 59 | U |
| 12672-29-6-----Aroclor-1248 | 57 | J |
| 11097-69-1-----Aroclor-1254 | 100 | P. |
| 11096-82-5-----Aroclor-1260 | 210 | P. |

VALIDATED

FORM I PEST

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SDC11-0.5
11-21-96

Lab Name: INDUSTRIAL & ENVIRONMENTAL Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-012

SDG No.: 11591

Matrix: (soil/water) SOIL

Lab Sample ID: 961159104

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: P1121296_081.D

% Moisture: 47 decanted: (Y/N) N

Date Received: 11/25/96

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 12/04/96

Concentrated Extract Volume: 5000(uL)

Date Analyzed: 12/18/96

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Q

| | | | |
|-----------------------------|--|------|----|
| 12674-11-2-----Aroclor-1016 | | 62 | U |
| 11104-28-2-----Aroclor-1221 | | 120 | U |
| 11141-16-5-----Aroclor-1232 | | 62 | U |
| 53469-21-9-----Aroclor-1242 | | 62 | U |
| 12672-29-6-----Aroclor-1248 | | 1300 | C |
| 11097-69-1-----Aroclor-1254 | | 860 | CP |
| 11096-82-5-----Aroclor-1260 | | 360 | P |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

| |
|--------------|
| SDC7-0.5 DCP |
| 11-21-96 |

Lab Name: INDUSTRIAL & ENVIRONMENTAL Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-012

SDG No.: 11591

Matrix: (soil/water) SOIL

Lab Sample ID: 961159103

Sample wt/vol: 30.2 (g/mL) G

Lab File ID: P1121296_096.D

% Moisture: 33 decanted: (Y/N) N

Date Received: 11/25/96

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 12/04/96

Concentrated Extract Volume: 5000(uL)

Date Analyzed: 12/19/96

Injection Volume: 1.0(uL)

Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.0

Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | | Q |
|-----------------|--------------|---|-------|-----|
| 12674-11-2----- | Aroclor-1016 | | 490 | U |
| 11104-28-2----- | Aroclor-1221 | | 990 | U |
| 11141-16-5----- | Aroclor-1232 | | 490 | U |
| 53469-21-9----- | Aroclor-1242 | | 490 | U |
| 12672-29-6----- | Aroclor-1248 | 15,000 | 16000 | DCP |
| 11097-69-1----- | Aroclor-1254 | | 15000 | DCP |
| 11096-82-5----- | Aroclor-1260 | 10,000 | 22000 | DCP |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SDC7-0.5DL

Lab Name: INDUSTRIAL & ENVIRONMENTAL Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-012

SDG No.: 11591

Matrix: (soil/water) SOIL

Lab Sample ID: 961159103DL

Sample wt/vol: 30.2 (g/mL) G

Lab File ID: P1121296_082.D

* Moisture: 33 decanted: (Y/N) N

Date Received: 11/25/96

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 12/04/96

Concentrated Extract Volume: 5000(uL)

Date Analyzed: 12/18/96

Injection Volume: 1.0(uL)

Dilution Factor: 100.0

GPC Cleanup: (Y/N) Y pH: 7.0

Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q | | |
|-----------------|--------------|---|------|--|
| | | | | |
| 12674-11-2----- | Aroclor-1016 | 4900 | U | |
| 11104-28-2----- | Aroclor-1221 | 9900 | U | |
| 11141-16-5----- | Aroclor-1232 | 4900 | U | |
| 53469-21-9----- | Aroclor-1242 | 4900 | U | |
| 12672-29-6----- | Aroclor-1248 | 15000 | C DP | |
| 11097-69-1----- | Aroclor-1254 | 15000 | C DP | |
| 11096-82-5----- | Aroclor-1260 | 10000 | C DP | |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SDT4(c)-1.S
11-20-96

Lab Name: INDUSTRIAL & ENVIRONMENTAL Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-012

SDG No.: 11591

Matrix: (soil/water) SOIL

Lab Sample ID: 961159105

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: P1121296_093.D

% Moisture: 20 decanted: (Y/N) N

Date Received: 11/25/96

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 12/04/96

Concentrated Extract Volume: 5000(uL)

Date Analyzed: 12/19/96

Injection Volume: 1.0(uL)

Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.0

Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | | Q |
|---------|----------|----------------------|-------|---|
| | | (ug/L or ug/Kg) | UG/KG | |

| | | | | |
|-----------------|--------------|--------|-------|------|
| 12674-11-2----- | Aroclor-1016 | | 410 | U |
| 11104-28-2----- | Aroclor-1221 | | 840 | U |
| 11141-16-5----- | Aroclor-1232 | | 410 | U |
| 53469-21-9----- | Aroclor-1242 | | 410 | U |
| 12672-29-6----- | Aroclor-1248 | 12,800 | 31000 | D C |
| 11097-69-1----- | Aroclor-1254 | 7,700 | 7300 | D C |
| 11096-82-5----- | Aroclor-1260 | 4,800 | 3400 | b CP |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SDT4DL

Lab Name: INDUSTRIAL & ENVIRONMENTAL Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-012 SDG No.: 11591

Matrix: (soil/water) SOIL Lab Sample ID: 961159105DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: P1121296_083.D

* Moisture: 20 decanted: (Y/N) N Date Received: 11/25/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/04/96

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/19/96

Injection Volume: 1.0(uL) Dilution Factor: 100.0

GPC Cleanup: (Y/N) Y Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | | Q |
|-----------------|--------------|---|----|---|
| | | UG/KG | Q | |
| 12674-11-2----- | Aroclor-1016 | 4100 | U | |
| 11104-28-2----- | Aroclor-1221 | 8400 | U | |
| 11141-16-5----- | Aroclor-1232 | 4100 | U | |
| 53469-21-9----- | Aroclor-1242 | 4100 | U | |
| 12672-29-6----- | Aroclor-1248 | 12000 | CD | |
| 11097-69-1----- | Aroclor-1254 | 7700 | CD | |
| 11096-82-5----- | Aroclor-1260 | 4800 | CD | |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

APP - SDT1(A)-o.S' 11-21-96

Lab Name: INDUSTRIAL & ENVIRONMENTAL Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-013

SDG No.: 11593

Matrix: (soil/water) SOIL

Lab Sample ID: 961159317

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: P2111196_279.D

% Moisture: 63 decanted: (Y/N) N

Date Received: 11/25/96

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 12/04/96

Concentrated Extract Volume: 5000(uL)

Date Analyzed: 12/14/96

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---------|----------|---|---|
|---------|----------|---|---|

| | | | |
|-----------------|--------------|-----|---|
| 12674-11-2----- | Aroclor-1016 | 89 | U |
| 11104-28-2----- | Aroclor-1221 | 180 | U |
| 11141-16-5----- | Aroclor-1232 | 89 | U |
| 53469-21-9----- | Aroclor-1242 | 89 | U |
| 12672-29-6----- | Aroclor-1248 | 89 | U |
| 11097-69-1----- | Aroclor-1254 | 570 | |
| 11096-82-5----- | Aroclor-1260 | 240 | P |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

RFD-SDD10-O.S
11-21-96

-Lab Name: INDUSTRIAL & ENVIRONMENTAL Contract: SOW 1/91

-Lab Code: IEA Case No.: 2240-013

SDG No.: 11593

Matrix: (soil/water) SOIL

Lab Sample ID: 961159301

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: P1121296_026.D

* Moisture: 56 decanted: (Y/N) N

Date Received: 11/25/96

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 12/04/96

Concentrated Extract Volume: 5000(uL)

Date Analyzed: 12/13/96

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|-----------------|--------------|---|----|
| 12674-11-2----- | Aroclor-1016 | 75 | U |
| 11104-28-2----- | Aroclor-1221 | 150 | U |
| 11141-16-5----- | Aroclor-1232 | 75 | U |
| 53469-21-9----- | Aroclor-1242 | 75 | U |
| 12672-29-6----- | Aroclor-1248 | 75 | U |
| 11097-69-1----- | Aroclor-1254 | 95 | P |
| 11096-82-5----- | Aroclor-1260 | 35 | JP |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SDT2(b)-1.0'
1-20-96

Lab Name: INDUSTRIAL & ENVIRONMENTAL Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-014

SDG No.: 11595

Matrix: (soil/water) SOIL

Lab Sample ID: 961159509

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: P1121296_103.D

% Moisture: 36 decanted: (Y/N) N

Date Received: 11/25/96

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 12/04/96

Concentrated Extract Volume: 5000(uL)

Date Analyzed: 12/19/96

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Q

| | | | | |
|-----------------|--------------|------|------|-----|
| CAS NO. | COMPOUND | | | |
| 12674-11-2----- | Aroclor-1016 | 51 | | U |
| 11104-28-2----- | Aroclor-1221 | 100 | | U |
| 11141-16-5----- | Aroclor-1232 | 51 | | U |
| 53469-21-9----- | Aroclor-1242 | 51 | | U |
| 12672-29-6----- | Aroclor-1248 | 4300 | 3200 | C P |
| 11097-69-1----- | Aroclor-1254 | 3400 | 2600 | C D |
| 11096-82-5----- | Aroclor-1260 | 1700 | 1500 | D |

VALIDATED

**1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET**

CLIENT SAMPLE NO.

Lab Name: INDUSTRIAL & ENVIRONMENTAL Contract: SOW 1/91

SDT2DL

Lab Code: IEA Case No.: 2240-014

SDG No.: 11595

Matrix: (soil/water) SOIL

Lab Sample ID: 961159509DL

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: P2121896_080.D

% Moisture: 36 decanted: (Y/N) N

Date Received: 11/25/96

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 12/04/96

Concentrated Extract Volume: 5000(uL)

Date Analyzed: 12/25/96

Injection Volume: 1.0(uL)

Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.0

Sulfur Cleanup: (Y/N) N

**CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG**

| CAS NO. | COMPOUND | UG/KG | Q |
|-----------------|--------------|-------|---|
| 12674-11-2----- | Aroclor-1016 | 510 | U |
| 11104-28-2----- | Aroclor-1221 | 1000 | U |
| 11141-16-5----- | Aroclor-1232 | 510 | U |
| 53469-21-9----- | Aroclor-1242 | 510 | U |
| 12672-29-6----- | Aroclor-1248 | 4300 | D |
| 11097-69-1----- | Aroclor-1254 | 3400 | D |
| 11096-82-5----- | Aroclor-1260 | 1700 | D |

VALIDATED

017

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N

APD-SDC2-0.

11-20-96

Lab Name: IEA-CT Contract: _____Lab Code: IEACT Case No.: 2581A SAS No.: _____ SDG No.: A2581Matrix: (soil/water): SOILLab Sample ID: 962581A-01Sample wt/vol: 30 (g/ml) GLab File ID: A1494CLP039* Moisture: 54 decanted: (Y/N) NDate Received: 11/21/96Extraction: (SepF/Cont/Sonc) SONCDate Extracted: 11/21/96Concentrated Extract Volume: 5000 (uL)Date Analyzed: 11/23/96Injection Volume: 1.0 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) Y pH: 5.6Sulfur Cleanup: (Y/N) N

CAS NO. COMPOUND

CONCENTRATION UNITS: Q
(ug/L or ug/Kg) UG/KG

| | | | |
|-------------------|---------------------|------------|-----------|
| <u>12674-11-2</u> | <u>Aroclor-1016</u> | <u>72</u> | <u>U</u> |
| <u>11104-28-2</u> | <u>Aroclor-1221</u> | <u>140</u> | <u>U</u> |
| <u>11141-16-5</u> | <u>Aroclor-1232</u> | <u>72</u> | <u>U</u> |
| <u>53469-21-9</u> | <u>Aroclor-1242</u> | <u>72</u> | <u>U</u> |
| <u>12672-29-6</u> | <u>Aroclor-1248</u> | <u>49.</u> | <u>JP</u> |
| <u>11097-69-1</u> | <u>Aroclor-1254</u> | <u>99.</u> | <u>P</u> |
| <u>11096-82-5</u> | <u>Aroclor-1260</u> | <u>63.</u> | <u>JP</u> |

VALIDATED

FORM I PEST

3/90

026

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

APP-SDD3-0.5

11-20-96

Lab Name: IEA-CT

Contract: _____

Lab Code: IEACT Case No.: 2581A SAS No.: _____ SDG No.: A2581Matrix: (soil/water): SOILLab Sample ID: 962581A-02Sample wt/vol: 30 (g/ml) GLab File ID: A1494CLP040% Moisture: 42 decanted: (Y/N) NDate Received: 11/21/96Extraction: (SepF/Cont/Sonc) SONCDate Extracted: 11/21/96Concentrated Extract Volume: 5000 (uL)Date Analyzed: 11/23/96Injection Volume: 1.0 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) Y pH: 6.6Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | Q |
|---------|----------|----------------------|--------------|
| | | (ug/L or ug/Kg) | <u>UG/KG</u> |

| | | | |
|------------|--------------|-----|---|
| 12674-11-2 | Aroclor-1016 | 57 | U |
| 11104-28-2 | Aroclor-1221 | 120 | U |
| 11141-16-5 | Aroclor-1232 | 57 | U |
| 53469-21-9 | Aroclor-1242 | 57 | U |
| 12672-29-6 | Aroclor-1248 | 62. | P |
| 11097-69-1 | Aroclor-1254 | 170 | |
| 11096-82-5 | Aroclor-1260 | 87. | P |

VALIDATED

035

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

D
APD-SOC4-0.5

11-20-96

Lab Name: IEA-CT

Contract: _____

Lab Code: IEACT Case No.: 2581A SAS No.: _____ SDG No.: A2581Matrix: (soil/water): SOILLab Sample ID: 962581A-03Sample wt/vol: 30 (g/ml) GLab File ID: A1494CLP043* Moisture: 37 decanted: (Y/N) NDate Received: 11/21/96Extraction: (SepF/Cont/Sonc) SONCDate Extracted: 11/21/96Concentrated Extract Volume: 5000 (uL)Date Analyzed: 11/23/96Injection Volume: 1.0 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) Y pH: 5.7Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS: Q
(ug/L or ug/Kg) UG/KG

| | | | |
|-------------------|---------------------|------------|----------|
| <u>12674-11-2</u> | <u>Aroclor-1016</u> | <u>52</u> | <u>U</u> |
| <u>11104-28-2</u> | <u>Aroclor-1221</u> | <u>110</u> | <u>U</u> |
| <u>11141-16-5</u> | <u>Aroclor-1232</u> | <u>52</u> | <u>U</u> |
| <u>53469-21-9</u> | <u>Aroclor-1242</u> | <u>52</u> | <u>U</u> |
| <u>12672-29-6</u> | <u>Aroclor-1248</u> | <u>72.</u> | <u>P</u> |
| <u>11097-69-1</u> | <u>Aroclor-1254</u> | <u>230</u> | |
| <u>11096-82-5</u> | <u>Aroclor-1260</u> | <u>130</u> | <u>P</u> |

VALIDATED

FORM I PEST

3/90

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APD-SDB5-0.5

11-20-96

Lab Name: IEA-CT

Contract: _____

Lab Code: IEACT Case No.: 2581A SAS No.: _____ SDG No.: A2581Matrix: (soil/water): SOILLab Sample ID: 962581A-04Sample wt/vol: 30 (g/ml) GLab File ID: A1494CLP044% Moisture: 68 decanted: (Y/N) NDate Received: 11/21/96Extraction: (SepF/Cont/Sonc) SONCDate Extracted: 11/21/96Concentrated Extract Volume: 5000 (uL)Date Analyzed: 11/23/96Injection Volume: 1.0 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) Y pH: 6.1Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS: Q
(ug/L or ug/Kg) UG/KG

| | | | |
|-------------------|---------------------|------------|----------|
| <u>12674-11-2</u> | <u>Aroclor-1016</u> | <u>100</u> | <u>U</u> |
| <u>11104-28-2</u> | <u>Aroclor-1221</u> | <u>210</u> | <u>U</u> |
| <u>11141-16-5</u> | <u>Aroclor-1232</u> | <u>100</u> | <u>U</u> |
| <u>53469-21-9</u> | <u>Aroclor-1242</u> | <u>100</u> | <u>U</u> |
| <u>12672-29-6</u> | <u>Aroclor-1248</u> | <u>250</u> | |
| <u>11097-69-1</u> | <u>Aroclor-1254</u> | <u>830</u> | |
| <u>11096-82-5</u> | <u>Aroclor-1260</u> | <u>430</u> | <u>P</u> |

VALIDATED

055A

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APD-SDC6-0.5

11-20-96

Lab Name: IEA-CT

Contract: _____

Lab Code: IEACT Case No.: 2581A SAS No.: _____ SDG No.: A2581Matrix: (soil/water): SOILLab Sample ID: 962581A-05Sample wt/vol: 30 (g/ml) GLab File ID: B5233CLP130% Moisture: 26 decanted: (Y/N) NDate Received: 11/21/96Extraction: (SepF/Cont/Sonc) SONCDate Extracted: 11/21/96Concentrated Extract Volume: 5000 (uL)Date Analyzed: 11/25/96Injection Volume: 1.0 (uL)Dilution Factor: 5.0GPC Cleanup: (Y/N) Y pH: 5.9Sulfur Cleanup: (Y/N) Y

CAS NO.

COMPOUND

CONCENTRATION UNITS: Q
(ug/L or ug/Kg) UG/KG

| | | | |
|-------------------|---------------------|------------|-----------|
| <u>12674-11-2</u> | <u>Aroclor-1016</u> | <u>220</u> | <u>U</u> |
| <u>11104-28-2</u> | <u>Aroclor-1221</u> | <u>450</u> | <u>U</u> |
| <u>11141-16-5</u> | <u>Aroclor-1232</u> | <u>220</u> | <u>U</u> |
| <u>53469-21-9</u> | <u>Aroclor-1242</u> | <u>220</u> | <u>U</u> |
| <u>12672-29-6</u> | <u>Aroclor-1248</u> | <u>190</u> | <u>JP</u> |
| <u>11097-69-1</u> | <u>Aroclor-1254</u> | <u>940</u> | |
| <u>11096-82-5</u> | <u>Aroclor-1260</u> | <u>760</u> | |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APD-SDD7-0.5

11-20-96

Lab Name: IEA-CT Contract: _____

Lab Code: IEACT Case No.: 2581A SAS No.: _____ SDG No.: A2581

Matrix: (soil/water) : SOIL Lab Sample ID: 962581A-06

Sample wt/vol: 30 (g/ml) G Lab File ID: A1494CLP079

% Moisture: 80 decanted: (Y/N) N Date Received: 11/21/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/21/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/24/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.7 Sulfur Cleanup: (Y/N) Y

| CAS NO. | COMPOUND | CONCENTRATION UNITS: Q (ug/L or ug/Kg) UG/KG | Q |
|------------|--------------|---|----|
| 12674-11-2 | Aroclor-1016 | 160 | U |
| 11104-28-2 | Aroclor-1221 | 340 | U |
| 11141-16-5 | Aroclor-1232 | 160 | U |
| 53469-21-9 | Aroclor-1242 | 160 | U |
| 12672-29-6 | Aroclor-1248 | 78. | JP |
| 11097-69-1 | Aroclor-1254 | 320 | |
| 11096-82-5 | Aroclor-1260 | 250 | |

VALIDATED

07

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APD-SDC8-0.5

11-20-96

Lab Name: IEA-CT

Contract: _____

Lab Code: IEACT Case No.: 2581A SAS No.: _____ SDG No.: A2581Matrix: (soil/water) :SOILLab Sample ID: 962581A-07Sample wt/vol: 30 (g/ml) GLab File ID: B5233CLP157% Moisture: 54 decanted: (Y/N) NDate Received: 11/21/96Extraction: (SepF/Cont/Sonc) SONCDate Extracted: 11/21/96Concentrated Extract Volume: 5000 (uL)Date Analyzed: 11/26/96Injection Volume: 1.0 (uL)Dilution Factor: 100.0GPC Cleanup: (Y/N) Y pH: 5.8Sulfur Cleanup: (Y/N) Y

CAS NO.

COMPOUND

CONCENTRATION UNITS: Q
(ug/L or ug/Kg) UG/KG

| | | | |
|-------------------|---------------------|--------------|----------|
| <u>12674-11-2</u> | <u>Aroclor-1016</u> | <u>7200</u> | <u>U</u> |
| <u>11104-28-2</u> | <u>Aroclor-1221</u> | <u>14000</u> | <u>U</u> |
| <u>11141-16-5</u> | <u>Aroclor-1232</u> | <u>7200</u> | <u>U</u> |
| <u>53469-21-9</u> | <u>Aroclor-1242</u> | <u>7200</u> | <u>U</u> |
| <u>12672-29-6</u> | <u>Aroclor-1248</u> | <u>23000</u> | |
| <u>11097-69-1</u> | <u>Aroclor-1254</u> | <u>35000</u> | <u>P</u> |
| <u>11096-82-5</u> | <u>Aroclor-1260</u> | <u>15000</u> | <u>P</u> |

VALIDATED

FORM I PEST

3/90

080

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APD-SDB9-0.5

11-20-96

Lab Name: IEA-CT Contract: _____Lab Code: IEACT Case No.: 2581A SAS No.: _____ SDG No.: A2581Matrix: (soil/water) : SOIL Lab Sample ID: 962581A-08Sample wt/vol: 30 (g/ml) G Lab File ID: B5233CLP132% Moisture: 65 decanted: (Y/N) N Date Received: 11/21/96Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/21/96Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/26/96Injection Volume: 1.0 (uL) Dilution Factor: 50.0GPC Cleanup: (Y/N) Y pH: 5.9 Sulfur Cleanup: (Y/N) Y

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | Q UG/KG |
|---------|----------|---|------------|
|---------|----------|---|------------|

| | | | |
|------------|---------------------|------|---|
| 12674-11-2 | <u>Aroclor-1016</u> | 4700 | U |
| 11104-28-2 | <u>Aroclor-1221</u> | 9600 | U |
| 11141-16-5 | <u>Aroclor-1232</u> | 4700 | U |
| 53469-21-9 | <u>Aroclor-1242</u> | 4700 | U |
| 12672-29-6 | <u>Aroclor-1248</u> | 2100 | J |
| 11097-69-1 | <u>Aroclor-1254</u> | 7100 | |
| 11096-82-5 | <u>Aroclor-1260</u> | 4900 | P |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APD-SDC9-1.0

11-20-96

Lab Name: IEA-CT Contract: _____
 Lab Code: IEACT Case No.: 2581A SAS No.: _____ SDG No.: A2581
 Matrix: (soil/water): SOIL Lab Sample ID: 962581A-09
 Sample wt/vol: 30 (g/ml) G Lab File ID: A1494CLP080
 % Moisture: 19 decanted: (Y/N) N Date Received: 11/21/96
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/21/96
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/24/96
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: 5.6 Sulfur Cleanup: (Y/N) Y

CAS NO. COMPOUND CONCENTRATION UNITS: Q
 (ug/L or ug/Kg) UG/KG

| | | | |
|------------|--------------|-----|----|
| 12674-11-2 | Aroclor-1016 | 41 | U |
| 11104-28-2 | Aroclor-1221 | 83 | U |
| 11141-16-5 | Aroclor-1232 | 41 | U |
| 53469-21-9 | Aroclor-1242 | 41 | U |
| 12672-29-6 | Aroclor-1248 | 21. | JP |
| 11097-69-1 | Aroclor-1254 | 49. | P |
| 11096-82-5 | Aroclor-1260 | 23. | JP |

VALIDATED

096

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

| |
|----------------|
| EPA SAMPLE NO. |
| APD-SDD9-0.5 |

Lab Name: IEA-CT Contract: _____ 11-20-96

Lab Code: IEACT Case No.: 2581A SAS No.: _____ SDG No.: A2581

Matrix: (soil/water):SOIL Lab Sample ID: 962581A-10

Sample wt/vol: 30 (g/ml) G Lab File ID: B5233CLP129

% Moisture: 16 decanted: (Y/N)N Date Received: 11/21/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/21/96

Concentrated Extract Volume:5000 (uL) Date Analyzed: 11/25/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N)Y pH:5.8 Sulfur Cleanup: (Y/N)Y

| CAS NO. | COMPOUND | CONCENTRATION UNITS: Q (ug/L or ug/Kg) UG/KG |
|---------|----------|---|
|---------|----------|---|

| | | | |
|-------------------|---------------------|------------|-----------|
| <u>12674-11-2</u> | <u>Aroclor-1016</u> | <u>39</u> | <u>U</u> |
| <u>11104-28-2</u> | <u>Aroclor-1221</u> | <u>80</u> | <u>U</u> |
| <u>11141-16-5</u> | <u>Aroclor-1232</u> | <u>39</u> | <u>U</u> |
| <u>53469-21-9</u> | <u>Aroclor-1242</u> | <u>39</u> | <u>U</u> |
| <u>12672-29-6</u> | <u>Aroclor-1248</u> | <u>1.8</u> | <u>JP</u> |
| <u>11097-69-1</u> | <u>Aroclor-1254</u> | <u>12.</u> | <u>JP</u> |
| <u>11096-82-5</u> | <u>Aroclor-1260</u> | <u>6.9</u> | <u>JP</u> |

VALIDATED

FORM I PEST

3/90

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

-SDT1(B)-0.5

Lab Name: IEA-CT

Contract: _____

11-20-96

Lab Code: IEACT Case No.: 2581A SAS No.: _____ SDG No.: A2581Matrix: (soil/water): SOILLab Sample ID: 962581A-11Sample wt/vol: 30 (g/ml) GLab File ID: B5233CLP133% Moisture: 70 decanted: (Y/N) NDate Received: 11/21/96Extraction: (SepF/Cont/Sonc) SONCDate Extracted: 11/21/96Concentrated Extract Volume: 5000 (uL)Date Analyzed: 11/26/96Injection Volume: 1.0 (uL)Dilution Factor: 20.0GPC Cleanup: (Y/N) Y pH: 5.7Sulfur Cleanup: (Y/N) Y

CAS NO.

COMPOUND

CONCENTRATION UNITS: Q
(ug/L or ug/Kg) UG/KG

| | | | |
|-------------------|---------------------|-------------|-----------|
| <u>12674-11-2</u> | <u>Aroclor-1016</u> | <u>2200</u> | <u>U</u> |
| <u>11104-28-2</u> | <u>Aroclor-1221</u> | <u>4500</u> | <u>U</u> |
| <u>11141-16-5</u> | <u>Aroclor-1232</u> | <u>2200</u> | <u>U</u> |
| <u>53469-21-9</u> | <u>Aroclor-1242</u> | <u>2200</u> | <u>U</u> |
| <u>12672-29-6</u> | <u>Aroclor-1248</u> | <u>1800</u> | <u>JP</u> |
| <u>11097-69-1</u> | <u>Aroclor-1254</u> | <u>4800</u> | <u>P</u> |
| <u>11096-82-5</u> | <u>Aroclor-1260</u> | <u>3600</u> | |

VALIDATED

FORM I PEST

3/90

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

-SDT1(C)-0.5

11-20-96

Lab Name: IEA-CT Contract: _____Lab Code: IEACT Case No.: 2581A SAS No.: _____ SDG No.: A2581Matrix: (soil/water) : SOIL Lab Sample ID: 962581A-12Sample wt/vol: 30 (g/ml) G Lab File ID: B5233CLP159% Moisture: 45 decanted: (Y/N) N Date Received: 11/21/96Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/21/96Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/26/96Injection Volume: 1.0 (uL) Dilution Factor: 50.0GPC Cleanup: (Y/N) Y pH: 5.8 Sulfur Cleanup: (Y/N) Y

| CAS NO. | COMPOUND | CONCENTRATION UNITS: Q (ug/L or ug/Kg) | UG/KG |
|---------|----------|---|-------|
|---------|----------|---|-------|

| | | | |
|-------------------|---------------------|-------------|-----------|
| <u>12674-11-2</u> | <u>Aroclor-1016</u> | <u>3000</u> | <u>U</u> |
| <u>11104-28-2</u> | <u>Aroclor-1221</u> | <u>6100</u> | <u>U</u> |
| <u>11141-16-5</u> | <u>Aroclor-1232</u> | <u>3000</u> | <u>U</u> |
| <u>53469-21-9</u> | <u>Aroclor-1242</u> | <u>3000</u> | <u>U</u> |
| <u>12672-29-6</u> | <u>Aroclor-1248</u> | <u>2300</u> | <u>JP</u> |
| <u>11097-69-1</u> | <u>Aroclor-1254</u> | <u>9300</u> | <u>P</u> |
| <u>11096-82-5</u> | <u>Aroclor-1260</u> | <u>2800</u> | <u>J</u> |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

-SDT1 (D) -0.5

11-20-96

Lab Name: IEA-CT

Contract: _____

Lab Code: IEACT Case No.: 2581A SAS No.: _____ SDG No.: A2581Matrix: (soil/water): SOILLab Sample ID: 962581A-13Sample wt/vol: 30 (g/ml) GLab File ID: B5233CLP160% Moisture: 45 decanted: (Y/N) NDate Received: 11/21/96Extraction: (SepF/Cont/Sonc) SONCDate Extracted: 11/21/96Concentrated Extract Volume: 5000 (uL)Date Analyzed: 11/26/96Injection Volume: 1.0 (uL)Dilution Factor: 20.0GPC Cleanup: (Y/N) Y pH: 5.9Sulfur Cleanup: (Y/N) Y

CAS NO. COMPOUND

CONCENTRATION UNITS: Q
(ug/L or ug/Kg) UG/KG

| | | | |
|-------------------|---------------------|-------------|-----------|
| <u>12674-11-2</u> | <u>Aroclor-1016</u> | <u>1200</u> | <u>U</u> |
| <u>11104-28-2</u> | <u>Aroclor-1221</u> | <u>2400</u> | <u>U</u> |
| <u>11141-16-5</u> | <u>Aroclor-1232</u> | <u>1200</u> | <u>U</u> |
| <u>53469-21-9</u> | <u>Aroclor-1242</u> | <u>1200</u> | <u>U</u> |
| <u>12672-29-6</u> | <u>Aroclor-1248</u> | <u>510</u> | <u>JP</u> |
| <u>11097-69-1</u> | <u>Aroclor-1254</u> | <u>3500</u> | <u>P</u> |
| <u>11096-82-5</u> | <u>Aroclor-1260</u> | <u>1200</u> | |

VALIDATED

FORM I PEST

3/90

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

-SDT2(B)-0.5

11-21-96

Lab Name: IEA-CT

Contract: _____

Lab Code: IEACT Case No.: 2581A SAS No.: _____ SDG No.: A2581Matrix: (soil/water): SOILLab Sample ID: 962581A-14Sample wt/vol: 30 (g/ml) GLab File ID: B5233CLP136* Moisture: 47 decanted: (Y/N) NDate Received: 11/21/96Extraction: (SepF/Cont/Sonc) SONCDate Extracted: 11/21/96Concentrated Extract Volume: 5000 (uL)Date Analyzed: 11/26/96Injection Volume: 1.0 (uL)Dilution Factor: 20.0GPC Cleanup: (Y/N) Y pH: 5.9Sulfur Cleanup: (Y/N) Y

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---------|----------|---|---|
|---------|----------|---|---|

| | | | |
|------------|--------------|------|---|
| 12674-11-2 | Aroclor-1016 | 1200 | U |
| 11104-28-2 | Aroclor-1221 | 2500 | U |
| 11141-16-5 | Aroclor-1232 | 1200 | U |
| 53469-21-9 | Aroclor-1242 | 1200 | U |
| 12672-29-6 | Aroclor-1248 | 930 | J |
| 11097-69-1 | Aroclor-1254 | 3400 | P |
| 11096-82-5 | Aroclor-1260 | 2900 | P |

VALIDATED

FORM I PEST

3/90

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

-SDT2 (C) - 0.5

11-20-96

Lab Name: IEA-CT

Contract: _____

Lab Code: IEACT Case No.: 2581A SAS No.: _____ SDG No.: A2581Matrix: (soil/water) : SOILLab Sample ID: 962581A-15Sample wt/vol: 30 (g/ml) GLab File ID: B5233CLP118% Moisture: 61 decanted: (Y/N) NDate Received: 11/21/96Extraction: (SepF/Cont/Sonc) SONCDate Extracted: 11/21/96Concentrated Extract Volume: 5000 (uL)Date Analyzed: 11/25/96Injection Volume: 1.0 (uL)Dilution Factor: 1000.0GPC Cleanup: (Y/N) Y pH: 6Sulfur Cleanup: (Y/N) Y

CAS NO. COMPOUND

CONCENTRATION UNITS: Q
(ug/L or ug/Kg) UG/KG

| | | | |
|-------------------|---------------------|---------------|-----------|
| <u>12674-11-2</u> | <u>Aroclor-1016</u> | <u>85000</u> | <u>U</u> |
| <u>11104-28-2</u> | <u>Aroclor-1221</u> | <u>170000</u> | <u>U</u> |
| <u>11141-16-5</u> | <u>Aroclor-1232</u> | <u>85000</u> | <u>U</u> |
| <u>53469-21-9</u> | <u>Aroclor-1242</u> | <u>85000</u> | <u>U</u> |
| <u>12672-29-6</u> | <u>Aroclor-1248</u> | <u>99000</u> | |
| <u>11097-69-1</u> | <u>Aroclor-1254</u> | <u>200000</u> | |
| <u>11096-82-5</u> | <u>Aroclor-1260</u> | <u>60000</u> | <u>JP</u> |

VALIDATED

FORM I PEST

3/90

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

-SDT2 (D) -0.5

11-20-96

Lab Name: IEA-CT Contract: _____Lab Code: IEACT Case No.: 2581A SAS No.: _____ SDG No.: A2581Matrix: (soil/water) :SOIL Lab Sample ID: 962581A-16Sample wt/vol: 30 (g/ml) G Lab File ID: B5233CLP119* Moisture: 60 decanted: (Y/N)N Date Received: 11/21/96Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/21/96Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/25/96Injection Volume: 1.0 (uL) Dilution Factor: 200.0GPC Cleanup: (Y/N)Y pH:6.1 Sulfur Cleanup: (Y/N)Y

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | Q |
|---------|----------|----------------------|--------------|
| | | (ug/L or ug/Kg) | <u>UG/KG</u> |

| | | | |
|------------|--------------|-------|----|
| 12674-11-2 | Aroclor-1016 | 16000 | U |
| 11104-28-2 | Aroclor-1221 | 34000 | U |
| 11141-16-5 | Aroclor-1232 | 16000 | U |
| 53469-21-9 | Aroclor-1242 | 16000 | U |
| 12672-29-6 | Aroclor-1248 | 6700 | JP |
| 11097-69-1 | Aroclor-1254 | 17000 | |
| 11096-82-5 | Aroclor-1260 | 5400 | JP |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

-SDT3 (B) -0.5

11-20-96

Lab Name: IEA-CT Contract: _____Lab Code: IEACT Case No.: 2581A SAS No.: _____ SDG No.: A2581Matrix: (soil/water): SOILLab Sample ID: 962581A-17Sample wt/vol: 30 (g/ml) GLab File ID: B5233CLP120% Moisture: 52 decanted: (Y/N) NDate Received: 11/21/96Extraction: (SepF/Cont/Sonc) SONCDate Extracted: 11/21/96Concentrated Extract Volume: 5000 (uL)Date Analyzed: 11/25/96Injection Volume: 1.0 (uL)Dilution Factor: 500.0GPC Cleanup: (Y/N) Y pH: 5.5Sulfur Cleanup: (Y/N) Y

| CAS NO. | COMPOUND | CONCENTRATION UNITS: Q (ug/L or ug/Kg) UG/KG | Q |
|------------|--------------|---|----|
| 12674-11-2 | Aroclor-1016 | 34000 | U |
| 11104-28-2 | Aroclor-1221 | 70000 | U |
| 11141-16-5 | Aroclor-1232 | 34000 | U |
| 53469-21-9 | Aroclor-1242 | 34000 | U |
| 12672-29-6 | Aroclor-1248 | 54000 | P |
| 11097-69-1 | Aroclor-1254 | 150000 | |
| 11096-82-5 | Aroclor-1260 | 30000 | JP |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

-SDT3 (C) -1.0

11-20-96

Lab Name: IEA-CT Contract: _____

Lab Code: IEACT Case No.: 2581A SAS No.: _____ SDG No.: A2581

Matrix: (soil/water): SOIL Lab Sample ID: 962581A-18

Sample wt/vol: 30 (g/ml) G Lab File ID: B5233CLP114

% Moisture: 31 decanted: (Y/N) N Date Received: 11/21/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/21/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/25/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | Q |
|------------|--------------|----------------------|-------|
| | | (ug/L or ug/Kg) | UG/KG |
| 12674-11-2 | Aroclor-1016 | 48 | U |
| 11104-28-2 | Aroclor-1221 | 97 | U |
| 11141-16-5 | Aroclor-1232 | 48 | U |
| 53469-21-9 | Aroclor-1242 | 48 | U |
| 12672-29-6 | Aroclor-1248 | 80. | P |
| 11097-69-1 | Aroclor-1254 | 100 | |
| 11096-82-5 | Aroclor-1260 | 43. | JP |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

-SDT3 (D) - 0.5

11-20-96

Lab Name: IEA-CT

Contract: _____

Lab Code: IEACT Case No.: 2581A SAS No.: _____ SDG No.: A2581Matrix: (soil/water): SOILLab Sample ID: 962581A-19Sample wt/vol: 30 (g/ml) GLab File ID: B5233CLP121% Moisture: 54 decanted: (Y/N) NDate Received: 11/21/96Extraction: (SepF/Cont/Sonc) SONCDate Extracted: 11/21/96Concentrated Extract Volume: 5000 (uL)Date Analyzed: 11/25/96Injection Volume: 1.0 (uL)Dilution Factor: 50.0GPC Cleanup: (Y/N) Y pH: 5.9Sulfur Cleanup: (Y/N) Y

CAS NO.

COMPOUND

CONCENTRATION UNITS: Q
(ug/L or ug/Kg) UG/KG

| | | | |
|-------------------|---------------------|-------------|-----------|
| <u>12674-11-2</u> | <u>Aroclor-1016</u> | <u>3600</u> | <u>U</u> |
| <u>11104-28-2</u> | <u>Aroclor-1221</u> | <u>7300</u> | <u>U</u> |
| <u>11141-16-5</u> | <u>Aroclor-1232</u> | <u>3600</u> | <u>U</u> |
| <u>53469-21-9</u> | <u>Aroclor-1242</u> | <u>3600</u> | <u>U</u> |
| <u>12672-29-6</u> | <u>Aroclor-1248</u> | <u>2200</u> | <u>JP</u> |
| <u>11097-69-1</u> | <u>Aroclor-1254</u> | <u>7000</u> | |
| <u>11096-82-5</u> | <u>Aroclor-1260</u> | <u>6500</u> | <u>P</u> |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APD-SDB1-0.5

11-20-96

Lab Name: IEA-CT Contract: _____

Lab Code: IEACT Case No.: 2581A SAS No.: _____ SDG No.: A2581

Matrix: (soil/water) : SOIL Lab Sample ID: 962581A-20

Sample wt/vol: 30 (g/ml) G Lab File ID: B5233CLP115

% Moisture: 65 decanted: (Y/N) N Date Received: 11/21/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/21/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/25/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.2 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: Q (ug/L or ug/Kg) UG/KG | Q |
|------------|--------------|---|----|
| 12674-11-2 | Aroclor-1016 | 94 | U |
| 11104-28-2 | Aroclor-1221 | 190 | U |
| 11141-16-5 | Aroclor-1232 | 94 | U |
| 53469-21-9 | Aroclor-1242 | 94 | U |
| 12672-29-6 | Aroclor-1248 | 94 | U |
| 11097-69-1 | Aroclor-1254 | 15. | JP |
| 11096-82-5 | Aroclor-1260 | 41. | J |

VALIDATED

CULVERT OUTFALL - O.S. 015

ID
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

APD - CULVERT OUTFALL

11-20-96 O.S.

Lab Name: IEA-CT

Contract: _____

Lab Code: IEACT Case No.: 2581B SAS No.: _____ SDG No.: B2581

Matrix: (soil/water): SOIL

Lab Sample ID: 962581B-01

Sample wt/vol: 30 (g/ml) G

Lab File ID: A1494CLP022

% Moisture: 58 decanted: (Y/N) N

Date Received: 11/21/96

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 11/21/96

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 11/23/96

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9

Sulfur Cleanup: (Y/N) N

CAS NO. COMPOUND

CONCENTRATION UNITS: Q
(ug/L or ug/Kg) UG/KG

| | | | |
|------------|--------------|-----|---|
| 12674-11-2 | Aroclor-1016 | 78 | U |
| 11104-28-2 | Aroclor-1221 | 160 | U |
| 11141-16-5 | Aroclor-1232 | 78 | U |
| 53469-21-9 | Aroclor-1242 | 78 | U |
| 12672-29-6 | Aroclor-1248 | 510 | |
| 11097-69-1 | Aroclor-1254 | 810 | P |
| 11096-82-5 | Aroclor-1260 | 760 | P |

VALIDATED

FORM I PEST

3/90

026

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ERT DOWN 0.5

Lab Name: IEA-CTContract: APP-Culvert-Downstream-0.511-20-96Lab Code: IEACT Case No.: 2581B SAS No.: _____ SDG No.: B2581Matrix: (soil/water): SOILLab Sample ID: 962581B-02Sample wt/vol: 30 (g/ml) GLab File ID: A1494CLP023* Moisture: 31 decanted: (Y/N) NDate Received: 11/21/96Extraction: (SepF/Cont/Sonc) SONCDate Extracted: 11/21/96Concentrated Extract Volume: 5000 (uL)Date Analyzed: 11/23/96Injection Volume: 1.0 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) Y pH: 6.9Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS: Q
(ug/L or ug/Kg) UG/KG

| | | | |
|-------------------|---------------------|------------|----------|
| <u>12674-11-2</u> | <u>Aroclor-1016</u> | <u>48</u> | <u>U</u> |
| <u>11104-28-2</u> | <u>Aroclor-1221</u> | <u>97</u> | <u>U</u> |
| <u>11141-16-5</u> | <u>Aroclor-1232</u> | <u>48</u> | <u>U</u> |
| <u>53469-21-9</u> | <u>Aroclor-1242</u> | <u>48</u> | <u>U</u> |
| <u>12672-29-6</u> | <u>Aroclor-1248</u> | <u>58.</u> | |
| <u>11097-69-1</u> | <u>Aroclor-1254</u> | <u>110</u> | <u>P</u> |
| <u>11096-82-5</u> | <u>Aroclor-1260</u> | <u>120</u> | |

FORM I PEST

VALIDATED 3/90

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

ERT UP(1)0.5

Lab Name: IEA-CTContract: APD-Culvert Upstream(1)-0.5'
11-20-96Lab Code: IEACT Case No.: 2581B SAS No.: _____ SDG No.: B2581Matrix: (soil/water): SOILLab Sample ID: 962581B-03Sample wt/vol: 30 (g/ml) GLab File ID: A1494CLP064% Moisture: 57 decanted: (Y/N) NDate Received: 11/21/96Extraction: (SepF/Cont/Sonc) SONCDate Extracted: 11/21/96Concentrated Extract Volume: 5000 (uL)Date Analyzed: 11/24/96Injection Volume: 1.0 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) Y pH: 6.8Sulfur Cleanup: (Y/N) Y

CAS NO.

COMPOUND

CONCENTRATION UNITS: Q
(ug/L or ug/Kg) UG/KG

| | | | |
|------------|--------------|-----|----|
| 12674-11-2 | Aroclor-1016 | 77 | U |
| 11104-28-2 | Aroclor-1221 | 160 | U |
| 11141-16-5 | Aroclor-1232 | 77 | U |
| 53469-21-9 | Aroclor-1242 | 77 | U |
| 12672-29-6 | Aroclor-1248 | 29. | JP |
| 11097-69-1 | Aroclor-1254 | 43. | JP |
| 11096-82-5 | Aroclor-1260 | 27. | JP |

VALIDATED

645

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

9PD-SDC10-0.5

Lab Name: IEA-CT Contract: _____ 11-20-96
 Lab Code: IEACT Case No.: 2581B SAS No.: _____ SDG No.: B2581
 Matrix: (soil/water) : SOIL Lab Sample ID: 962581B-04
 Sample wt/vol: 30 (g/ml) G Lab File ID: A1494CLP065
 % Moisture: 26 decanted: (Y/N) N Date Received: 11/21/96
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/21/96
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/24/96
 Injection Volume: 1.0 (uL) Dilution Factor: 2.0
 GPC Cleanup: (Y/N) Y pH: 6.2 Sulfur Cleanup: (Y/N) Y

| CAS NO. | COMPOUND | CONCENTRATION UNITS: Q (ug/L or ug/Kg) | UG/KG |
|------------|--------------|---|-------|
| 12674-11-2 | Aroclor-1016 | 89 | U |
| 11104-28-2 | Aroclor-1221 | 180 | U |
| 11141-16-5 | Aroclor-1232 | 89 | U |
| 53469-21-9 | Aroclor-1242 | 89 | U |
| 12672-29-6 | Aroclor-1248 | 170 | P |
| 11097-69-1 | Aroclor-1254 | 360 | P |
| 11096-82-5 | Aroclor-1260 | 170 | P |

VALIDATED

053

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

APD - SDT4 (B) - 0.5

11-20-96

Lab Name: IEA-CT

Contract: _____

Lab Code: IEACT Case No.: 2581B SAS No.: _____ SDG No.: B2581Matrix: (soil/water): SOILLab Sample ID: 962581B-05Sample wt/vol: 30 (g/ml) GLab File ID: A1494CLP066% Moisture: 23 decanted: (Y/N) NDate Received: 11/21/96Extraction: (SepF/Cont/Sonc) SONCDate Extracted: 11/21/96Concentrated Extract Volume: 5000 (uL)Date Analyzed: 11/24/96Injection Volume: 1.0 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) Y pH: 6.4Sulfur Cleanup: (Y/N) Y

CAS NO.

COMPOUND

CONCENTRATION UNITS: Q
(ug/L or ug/Kg) UG/KG

| | | | |
|-------------------|---------------------|------------|-----------|
| <u>12674-11-2</u> | <u>Aroclor-1016</u> | <u>43</u> | <u>U</u> |
| <u>11104-28-2</u> | <u>Aroclor-1221</u> | <u>87</u> | <u>U</u> |
| <u>11141-16-5</u> | <u>Aroclor-1232</u> | <u>43</u> | <u>U</u> |
| <u>53469-21-9</u> | <u>Aroclor-1242</u> | <u>43</u> | <u>U</u> |
| <u>12672-29-6</u> | <u>Aroclor-1248</u> | <u>13.</u> | <u>JP</u> |
| <u>11097-69-1</u> | <u>Aroclor-1254</u> | <u>80.</u> | <u>P</u> |
| <u>11096-82-5</u> | <u>Aroclor-1260</u> | <u>61.</u> | <u>P</u> |

VALIDATED

FORM I PEST

3/90

682

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AND SDT4 (C) - 1.0

Lab Name: IEA-CT Contract: 11-20-96
 Lab Code: IEACT Case No.: 2581B SAS No.: SDG No.: B2581
 Matrix: (soil/water): SOIL Lab Sample ID: 962581B-06
 Sample wt/vol: 30 (g/ml) G Lab File ID: B5233CLP196
 % Moisture: 48 decanted: (Y/N) N Date Received: 11/21/96
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/21/96
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/28/96
 Injection Volume: 1.0 (uL) Dilution Factor: 500.0
 GPC Cleanup: (Y/N) Y pH: 6.1 Sulfur Cleanup: (Y/N) Y

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | Q |
|---------|----------|----------------------|-------|
| | | (ug/L or ug/Kg) | UG/KG |

| | | | |
|------------|--------------|-------|----|
| 12674-11-2 | Aroclor-1016 | 32000 | U |
| 11104-28-2 | Aroclor-1221 | 64000 | U |
| 11141-16-5 | Aroclor-1232 | 32000 | U |
| 53469-21-9 | Aroclor-1242 | 32000 | U |
| 12672-29-6 | Aroclor-1248 | 10000 | JP |
| 11097-69-1 | Aroclor-1254 | 31000 | JP |
| 11096-82-5 | Aroclor-1260 | 19000 | J |

VALIDATED

639

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

APD-SDT4 (D) - 0.5

Lab Name: IEA-CT Contract: _____ Date: 11-20-96Lab Code: IEACT Case No.: 2581B SAS No.: _____ SDG No.: B2581Matrix: (soil/water): SOIL Lab Sample ID: 962581B-07Sample wt/vol: 30 (g/ml) G Lab File ID: A1494CLP068% Moisture: 17 decanted: (Y/N) N Date Received: 11/21/96Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/21/96Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/24/96Injection Volume: 1.0 (uL) Dilution Factor: 2.0GPC Cleanup: (Y/N) Y pH: 6.7 Sulfur Cleanup: (Y/N) Y

| | | | |
|----------------|-----------------|--|--|
| <u>CAS NO.</u> | <u>COMPOUND</u> | <u>CONCENTRATION UNITS:</u> Q (ug/L or ug/Kg) UG/KG | |
|----------------|-----------------|--|--|

| | | | |
|-------------------|---------------------|------------|-----------|
| <u>12674-11-2</u> | <u>Aroclor-1016</u> | <u>80</u> | <u>U</u> |
| <u>11104-28-2</u> | <u>Aroclor-1221</u> | <u>160</u> | <u>U</u> |
| <u>11141-16-5</u> | <u>Aroclor-1232</u> | <u>80</u> | <u>U</u> |
| <u>53469-21-9</u> | <u>Aroclor-1242</u> | <u>80</u> | <u>U</u> |
| <u>12672-29-6</u> | <u>Aroclor-1248</u> | <u>22.</u> | <u>JP</u> |
| <u>11097-69-1</u> | <u>Aroclor-1254</u> | <u>520</u> | |
| <u>11096-82-5</u> | <u>Aroclor-1260</u> | <u>200</u> | |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ERT UP(2) 0.5

G78

Lab Name: IEA-CTContract: APD-Culvert Upstream(2)-o.s
11-20-96Lab Code: IEACT Case No.: 2581B SAS No.: SDG No.: B2581Matrix: (soil/water): SOILLab Sample ID: 962581B-08Sample wt/vol: 30 (g/ml) GLab File ID: B5233CLP233* Moisture: 65 decanted: (Y/N) NDate Received: 11/21/96Extraction: (SepF/Cont/Sonc) SONCDate Extracted: 11/21/96Concentrated Extract Volume: 5000 (uL)Date Analyzed: 11/29/96Injection Volume: 1.0 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) Y pH: 6.8Sulfur Cleanup: (Y/N) YCAS NO. COMPOUND CONCENTRATION UNITS: Q
(ug/L or ug/Kg) UG/KG

| | | | |
|------------|--------------|-----|---|
| 12674-11-2 | Aroclor-1016 | 94 | U |
| 11104-28-2 | Aroclor-1221 | 190 | U |
| 11141-16-5 | Aroclor-1232 | 94 | U |
| 53469-21-9 | Aroclor-1242 | 94 | U |
| 12672-29-6 | Aroclor-1248 | 110 | |
| 11097-69-1 | Aroclor-1254 | 140 | |
| 11096-82-5 | Aroclor-1260 | 110 | P |

VALIDATED

0013

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N

APP-SDB6-0.

11-21-96

Lab Name: IEA-CT Contract: _____Lab Code: IEACT Case No.: 2645A SAS No.: _____ SDG No.: A2645Matrix: (soil/water) :SOILLab Sample ID: 962645A-05Sample wt/vol: 30 (g/ml) GLab File ID: B5234CLP273Moisture: 28 decanted: (Y/N) NDate Received: 11/29/96Extraction: (SepF/Cont/Sonc) SONCDate Extracted: 12/03/96Concentrated Extract Volume: 5000 (uL)Date Analyzed: 12/14/96Injection Volume: 1.0 (uL)Dilution Factor: 5.0GPC Cleanup: (Y/N) Y pH: 5.5Sulfur Cleanup: (Y/N) N

CAS NO. COMPOUND

CONCENTRATION UNITS: Q
(ug/L or ug/Kg) UG/KG

| | | | |
|-------------------|---------------------|------------|----------|
| <u>12674-11-2</u> | <u>Aroclor-1016</u> | <u>230</u> | <u>U</u> |
| <u>11104-28-2</u> | <u>Aroclor-1221</u> | <u>460</u> | <u>U</u> |
| <u>11141-16-5</u> | <u>Aroclor-1232</u> | <u>230</u> | <u>U</u> |
| <u>53469-21-9</u> | <u>Aroclor-1242</u> | <u>230</u> | <u>U</u> |
| <u>12672-29-6</u> | <u>Aroclor-1248</u> | <u>160</u> | <u>J</u> |
| <u>11097-69-1</u> | <u>Aroclor-1254</u> | <u>370</u> | <u>-</u> |
| <u>11096-82-5</u> | <u>Aroclor-1260</u> | <u>190</u> | <u>J</u> |

VALIDATED

FORM I PEST

3/90

0022

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APP-SDT1(B)-1.0

11-20-96

Lab Name: IEA-CT Contract: _____Lab Code: IEACT Case No.: 2645A SAS No.: _____ SDG No.: A2645Matrix: (soil/water) : SOIL Lab Sample ID: 962645A-07Sample wt/vol: 30 (g/ml) G Lab File ID: B5234CLP274% Moisture: 23 decanted: (Y/N) N Date Received: 11/29/96Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/03/96Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/14/96Injection Volume: 1.0 (uL) Dilution Factor: 1.0GPC Cleanup: (Y/N) Y pH: 6 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | Q |
|---------|----------|----------------------|--------------|
| | | (ug/L or ug/Kg) | <u>UG/KG</u> |

| | | | |
|------------|--------------|-----|----|
| 12674-11-2 | Aroclor-1016 | 43 | U |
| 11104-28-2 | Aroclor-1221 | 87 | U |
| 11141-16-5 | Aroclor-1232 | 43 | U |
| 53469-21-9 | Aroclor-1242 | 43 | U |
| 12672-29-6 | Aroclor-1248 | 18. | JP |
| 11097-69-1 | Aroclor-1254 | 35. | J |
| 11096-82-5 | Aroclor-1260 | 10. | J |

VALIDATED

0030

ID
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APD-SDT2 (A)-1.0

11-20-96

- Lab Name: IEA-CT Contract: _____
 Lab Code: IEACT Case No.: 2645A SAS No.: _____ SDG No.: A2645
 Matrix: (soil/water) : SOIL Lab Sample ID: 962645A-10
 Sample wt/vol: 30 (g/ml) G Lab File ID: B5239CLP055
 % Moisture: 22 decanted: (Y/N) N Date Received: 11/29/96
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/03/96
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 01/03/97
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: 5.8 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | Q |
|---------|----------|----------------------|-------|
| | | (ug/L or ug/Kg) | UG/KG |

| | | | |
|------------|--------------|-----|---|
| 12674-11-2 | Aroclor-1016 | 42 | U |
| 11104-28-2 | Aroclor-1221 | 86 | U |
| 11141-16-5 | Aroclor-1232 | 42 | U |
| 53469-21-9 | Aroclor-1242 | 42 | U |
| 12672-29-6 | Aroclor-1248 | 5.0 | J |
| 11097-69-1 | Aroclor-1254 | 10. | J |
| 11096-82-5 | Aroclor-1260 | 7.2 | J |

VALIDATED

FORM I PEST

3/90

0038

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APD -SDT3 (E) -0.5

11-21-96

Lab Name: IEA-CT Contract: _____Lab Code: IEACT Case No.: 2645A SAS No.: _____ SDG No.: A2645Matrix: (soil/water): SOIL Lab Sample ID: 962645A-15Sample wt/vol: 30 (g/ml) G Lab File ID: B5234CLP276† Moisture: 49 decanted: (Y/N) N Date Received: 11/29/96Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/03/96Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/14/96Injection Volume: 1.0 (uL) Dilution Factor: 5.0GPC Cleanup: (Y/N) Y pH: 6.3 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | Q UG/KG |
|---------|----------|---|------------|
|---------|----------|---|------------|

| | | | |
|-------------------|---------------------|------------|----------|
| <u>12674-11-2</u> | <u>Aroclor-1016</u> | <u>320</u> | <u>U</u> |
| <u>11104-28-2</u> | <u>Aroclor-1221</u> | <u>660</u> | <u>U</u> |
| <u>11141-16-5</u> | <u>Aroclor-1232</u> | <u>320</u> | <u>U</u> |
| <u>53469-21-9</u> | <u>Aroclor-1242</u> | <u>320</u> | <u>U</u> |
| <u>12672-29-6</u> | <u>Aroclor-1248</u> | <u>320</u> | <u>U</u> |
| <u>11097-69-1</u> | <u>Aroclor-1254</u> | <u>320</u> | |
| <u>11096-82-5</u> | <u>Aroclor-1260</u> | <u>400</u> | |

VALIDATED

0045

EPA SAMPLE NO.

APP -SDT1 (D) -1.0

11-20-96

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: IEA-CT Contract: _____Lab Code: IEACT Case No.: 2645A SAS No.: _____ SDG No.: A2645Matrix: (soil/water): SOILLab Sample ID: 962645A-16Sample wt/vol: 30 (g/ml) GLab File ID: B5234CLP317% Moisture: 25 decanted: (Y/N) NDate Received: 11/29/96Extraction: (SepF/Cont/Sonc) SONCDate Extracted: 12/03/96Concentrated Extract Volume: 5000 (uL)Date Analyzed: 12/17/96Injection Volume: 1.0 (uL)Dilution Factor: 2.0GPC Cleanup: (Y/N) Y pH: 6.3Sulfur Cleanup: (Y/N) N

CAS NO. COMPOUND

CONCENTRATION UNITS: Q
(ug/L or ug/Kg) UG/KG

| | | | |
|-------------------|---------------------|------------|-----------|
| <u>12674-11-2</u> | <u>Aroclor-1016</u> | <u>88</u> | <u>U</u> |
| <u>11104-28-2</u> | <u>Aroclor-1221</u> | <u>180</u> | <u>U</u> |
| <u>11141-16-5</u> | <u>Aroclor-1232</u> | <u>88</u> | <u>U</u> |
| <u>53469-21-9</u> | <u>Aroclor-1242</u> | <u>88</u> | <u>U</u> |
| <u>12672-29-6</u> | <u>Aroclor-1248</u> | <u>88</u> | <u>U</u> |
| <u>11097-69-1</u> | <u>Aroclor-1254</u> | <u>160</u> | |
| <u>11096-82-5</u> | <u>Aroclor-1260</u> | <u>38.</u> | <u>JP</u> |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

0052

EPA SAMPLE NO.

APP - SDT3 (A) - 1.5

11-20-96

Lab Name: IEA-CT Contract: _____Lab Code: IEACT Case No.: 2645A SAS No.: _____ SDG No.: A2645Matrix: (soil/water): SOIL Lab Sample ID: 962645A-20Sample wt/vol: 30 (g/ml) G Lab File ID: B5234CLP279% Moisture: 19 decanted: (Y/N) N Date Received: 11/29/96Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/03/96Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/14/96Injection Volume: 1.0 (uL) Dilution Factor: 2.0GPC Cleanup: (Y/N) Y pH: 6 Sulfur Cleanup: (Y/N) NCAS NO. COMPOUND CONCENTRATION UNITS: Q
(ug/L or ug/Kg) UG/KG

| | | | |
|------------|--------------|-----|----|
| 12674-11-2 | Aroclor-1016 | 81 | U |
| 11104-28-2 | Aroclor-1221 | 160 | U |
| 11141-16-5 | Aroclor-1232 | 81 | U |
| 53469-21-9 | Aroclor-1242 | 81 | U |
| 12672-29-6 | Aroclor-1248 | 81 | U |
| 11097-69-1 | Aroclor-1254 | 110 | P |
| 11096-82-5 | Aroclor-1260 | 22. | JP |

VALIDATED

0013

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
APD-SDB10-0.5

11-21-96

Lab Name: IEA-CT

Contract: _____

Lab Code: IEACT Case No.: 2650A SAS No.: _____ SDG No.: A2650Matrix: (soil/water) :SOILLab Sample ID: 962650A-01Sample wt/vol: 30 (g/ml) GLab File ID: B5234CLP281% Moisture: 47 decanted: (Y/N) NDate Received: 11/29/96Extraction: (SepF/Cont/Sonc) SONCDate Extracted: 12/04/96Concentrated Extract Volume: 5000 (uL)Date Analyzed: 12/14/96Injection Volume: 1.0 (uL)Dilution Factor: 5.0 GPC Cleanup: (Y/N) Y pH: 5.6Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS: Q
(ug/L or ug/Kg) UG/KG

| | | | |
|-------------------|---------------------|------------|-----------|
| <u>12674-11-2</u> | <u>Aroclor-1016</u> | <u>310</u> | <u>U</u> |
| <u>11104-28-2</u> | <u>Aroclor-1221</u> | <u>630</u> | <u>U</u> |
| <u>11141-16-5</u> | <u>Aroclor-1232</u> | <u>310</u> | <u>U</u> |
| <u>53469-21-9</u> | <u>Aroclor-1242</u> | <u>310</u> | <u>U</u> |
| <u>12672-29-6</u> | <u>Aroclor-1248</u> | <u>230</u> | <u>J</u> |
| <u>11097-69-1</u> | <u>Aroclor-1254</u> | <u>670</u> | |
| <u>11096-82-5</u> | <u>Aroclor-1260</u> | <u>300</u> | <u>JP</u> |

VALIDATED

0020

EPA SAMPLE NO.

APD-SDA5-1.5

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEETLab Name: IEA-CT Contract: _____

11-21-96

Lab Code: IEACT Case No.: 2650A SAS No.: _____ SDG No.: A2650Matrix: (soil/water) :SOILLab Sample ID: 962650A-05Sample wt/vol: 30 (g/ml) GLab File ID: B5234CLP289% Moisture: 21 decanted: (Y/N) NDate Received: 11/29/96Extraction: (SepF/Cont/Sonc) SONCDate Extracted: 12/04/96Concentrated Extract Volume: 5000 (uL)Date Analyzed: 12/15/96Injection Volume: 1.0 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) Y pH: 6.1Sulfur Cleanup: (Y/N) N

CAS NO. COMPOUND

CONCENTRATION UNITS: Q
(ug/L or ug/Kg) UG/KG

| | | | |
|------------|--------------|-----|----|
| 12674-11-2 | Aroclor-1016 | 42 | U |
| 11104-28-2 | Aroclor-1221 | 85 | U |
| 11141-16-5 | Aroclor-1232 | 42 | U |
| 53469-21-9 | Aroclor-1242 | 42 | U |
| 12672-29-6 | Aroclor-1248 | 4.2 | JP |
| 11097-69-1 | Aroclor-1254 | 2.8 | JP |
| 11096-82-5 | Aroclor-1260 | 42 | U |

VALIDATED

0027

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
APD-SDB4-0.5

11-21-96

Lab Name: IEA-CT Contract: _____
 Lab Code: IEACT Case No.: 2650A SAS No.: _____ SDG No.: A2650
 Matrix: (soil/water): SOIL Lab Sample ID: 962650A-07
 Sample wt/vol: 30 (g/ml) G Lab File ID: B5234CLP290
 % Moisture: 63 decanted: (Y/N) N Date Received: 11/29/96
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/04/96
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/15/96
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: 6 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | Q |
|---------|----------|----------------------|-------|
| | | (ug/L or ug/Kg) | UG/KG |

| | | | |
|------------|--------------|-----|----|
| 12674-11-2 | Aroclor-1016 | 89 | U |
| 11104-28-2 | Aroclor-1221 | 180 | U |
| 11141-16-5 | Aroclor-1232 | 89 | U |
| 53469-21-9 | Aroclor-1242 | 89 | U |
| 12672-29-6 | Aroclor-1248 | 38. | J |
| 11097-69-1 | Aroclor-1254 | 54. | J |
| 11096-82-5 | Aroclor-1260 | 14. | JP |

VALIDATED

0035

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APD-SDB10-1.0

11-21-96

Lab Name: IEA-CT

Contract: _____

Lab Code: IEACT Case No.: 2650A SAS No.: _____ SDG No.: A2650Matrix: (soil/water) :SOILLab Sample ID: 962650A-12Sample wt/vol: 30 (g/ml) GLab File ID: B5239CLP056* Moisture: 26 decanted: (Y/N)NDate Received: 11/29/96Extraction: (SepF/Cont/Sonc) SONCDate Extracted: 12/04/96Concentrated Extract Volume: 5000 (uL)Date Analyzed: 01/03/97Injection Volume: 1.0 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N)Y pH:5.7Sulfur Cleanup: (Y/N)N

CAS NO. COMPOUND

CONCENTRATION UNITS: Q
(ug/L or ug/Kg) UG/KG

| | | | |
|-------------------|---------------------|------------|----------|
| <u>12674-11-2</u> | <u>Aroclor-1016</u> | <u>44</u> | <u>U</u> |
| <u>11104-28-2</u> | <u>Aroclor-1221</u> | <u>90</u> | <u>U</u> |
| <u>11141-16-5</u> | <u>Aroclor-1232</u> | <u>44</u> | <u>U</u> |
| <u>53469-21-9</u> | <u>Aroclor-1242</u> | <u>44</u> | <u>U</u> |
| <u>12672-29-6</u> | <u>Aroclor-1248</u> | <u>36.</u> | <u>J</u> |
| <u>11097-69-1</u> | <u>Aroclor-1254</u> | <u>90.</u> | |
| <u>11096-82-5</u> | <u>Aroclor-1260</u> | <u>54.</u> | <u>P</u> |

VALIDATED

0044

EPA SAMPLE NO.

APD-SDB8-0.5

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEETLab Name: IEA-CT

Contract: _____

11-21-96

Lab Code: IEACT Case No.: 2650A SAS No.: _____ SDG No.: A2650Matrix: (soil/water): SOILLab Sample ID: 962650A-13Sample wt/vol: 30 (g/ml) GLab File ID: B5234CLP291% Moisture: 32 decanted: (Y/N) NDate Received: 11/29/96Extraction: (SepF/Cont/Sonc) SONCDate Extracted: 12/04/96Concentrated Extract Volume: 5000 (uL)Date Analyzed: 12/15/96Injection Volume: 1.0 (uL)Dilution Factor: 2.0GPC Cleanup: (Y/N) Y pH: 5.7Sulfur Cleanup: (Y/N) N

CAS NO. COMPOUND

CONCENTRATION UNITS: Q
(ug/L or ug/Kg) UG/KG

| | | | |
|------------|--------------|-----|---|
| 12674-11-2 | Aroclor-1016 | 97 | U |
| 11104-28-2 | Aroclor-1221 | 200 | U |
| 11141-16-5 | Aroclor-1232 | 97 | U |
| 53469-21-9 | Aroclor-1242 | 97 | U |
| 12672-29-6 | Aroclor-1248 | 79. | J |
| 11097-69-1 | Aroclor-1254 | 250 | |
| 11096-82-5 | Aroclor-1260 | 83. | J |

VALIDATED

FORM I PEST

3/90

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

0052

EPA SAMPLE NO.

ARD-SDT1(C)-1.0

Lab Name: IEA-CT

Contract: _____

11-21-96

Lab Code: IEACT Case No.: 2650A SAS No.: _____ SDG No.: A2650Matrix: (soil/water) : SOILLab Sample ID: 962650A-17Sample wt/vol: 30 (g/ml) GLab File ID: B5234CLP293% Moisture: 22 decanted: (Y/N) NDate Received: 11/29/96Extraction: (SepF/Cont/Sonc) SONCDate Extracted: 12/04/96Concentrated Extract Volume: 5000 (uL)Date Analyzed: 12/15/96Injection Volume: 1.0 (uL)Dilution Factor: 2.0GPC Cleanup: (Y/N) Y pH: 6.2Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS: Q
(ug/L or ug/Kg) UG/KG

| | | | |
|-------------------|---------------------|------------|----------|
| <u>12674-11-2</u> | <u>Aroclor-1016</u> | <u>85</u> | <u>U</u> |
| <u>11104-28-2</u> | <u>Aroclor-1221</u> | <u>170</u> | <u>U</u> |
| <u>11141-16-5</u> | <u>Aroclor-1232</u> | <u>85</u> | <u>U</u> |
| <u>53469-21-9</u> | <u>Aroclor-1242</u> | <u>85</u> | <u>U</u> |
| <u>12672-29-6</u> | <u>Aroclor-1248</u> | <u>120</u> | <u>P</u> |
| <u>11097-69-1</u> | <u>Aroclor-1254</u> | <u>250</u> | |
| <u>11096-82-5</u> | <u>Aroclor-1260</u> | <u>91.</u> | <u>P</u> |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

0060
EPA SAMPLE NO.
APD-SDT3 (A) -1.0
11-21-96

Lab Name: IEA-CT

Contract: _____

Lab Code: IEACT Case No.: 2650A SAS No.: _____ SDG No.: A2650Matrix: (soil/water):SOILLab Sample ID: 962650A-18Sample wt/vol: 30 (g/ml) GLab File ID: B5239CLP057% Moisture: 20 decanted: (Y/N)NDate Received: 11/29/96Extraction: (SepF/Cont/Sonc) SONCDate Extracted: 12/04/96Concentrated Extract Volume: 5000 (uL)Date Analyzed: 01/03/97Injection Volume: 1.0 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N)Y pH:5.9Sulfur Cleanup: (Y/N)N

CAS NO.

COMPOUND

CONCENTRATION UNITS: Q
(ug/L or ug/Kg) UG/KG

| | | | |
|-------------------|---------------------|------------|-----------|
| <u>12674-11-2</u> | <u>Aroclor-1016</u> | <u>41</u> | <u>U</u> |
| <u>11104-28-2</u> | <u>Aroclor-1221</u> | <u>84</u> | <u>U</u> |
| <u>11141-16-5</u> | <u>Aroclor-1232</u> | <u>41</u> | <u>U</u> |
| <u>53469-21-9</u> | <u>Aroclor-1242</u> | <u>41</u> | <u>U</u> |
| <u>12672-29-6</u> | <u>Aroclor-1248</u> | <u>14.</u> | <u>JP</u> |
| <u>11097-69-1</u> | <u>Aroclor-1254</u> | <u>52.</u> | |
| <u>11096-82-5</u> | <u>Aroclor-1260</u> | <u>14.</u> | <u>JP</u> |

VALIDATED

A2

MERCURY ANALYTICAL RESULTS

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

Lab Name: IEA

Contract: _____

APD-CULVERT OU
0.5' 11-20-96Lab Code: IEA Case No.: 2581

SAS No.: _____

SDG No.: B2581Matrix (soil/water): SOILLab Sample ID: 962581B-01Level (low/med): LOWDate Received: 11/21/96% Solids: 46.3

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | | | | NR |
| 7440-36-0 | Antimony | | | | NR |
| 7440-38-2 | Arsenic | | | | NR |
| 7440-39-3 | Barium | | | | NR |
| 7440-41-7 | Beryllium | | | | NR |
| 7440-43-9 | Cadmium | | | | NR |
| 7440-70-2 | Calcium | | | | NR |
| 7440-47-3 | Chromium | | | | NR |
| 7440-48-4 | Cobalt | | | | NR |
| 7440-50-8 | Copper | | | | NR |
| 7439-89-6 | Iron | | | | NR |
| 7439-92-1 | Lead | | | | NR |
| 7439-95-4 | Magnesium | | | | NR |
| 7439-96-5 | Manganese | | | | NR |
| 7439-97-6 | Mercury | 0.16 | U | N | CV |
| 7440-02-0 | Nickel | | | | NR |
| 7440-09-7 | Potassium | | | | NR |
| 7782-49-2 | Selenium | | | | NR |
| 7440-22-4 | Silver | | | | NR |
| 7440-23-5 | Sodium | | | | NR |
| 7440-28-0 | Thallium | | | | NR |
| 7440-62-2 | Vanadium | | | | NR |
| 7440-66-6 | Zinc | | | | NR |
| 57-12-5 | Cyanide | | | | NR |

Color Before: _____

Clarity Before: OPAQUE

Texture: _____

Color After: _____

Clarity After: OPAQUE

Artifacts: _____

Comments:

VALIDATED

FORM I - IN

ILM03.1

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

Lab Name: IEA

Contract: _____

APD-CULVERT DOWN
STREAM 0.5'Lab Code: IEA Case No.: 2581

SAS No.: _____

SDG No.: B2581

11-20-96

Matrix (soil/water): SOILLab Sample ID: 962581B-02Level (low/med): LOWDate Received: 11/21/96% Solids: 67

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | | | | NR |
| 7440-36-0 | Antimony | | | | NR |
| 7440-38-2 | Arsenic | | | | NR |
| 7440-39-3 | Barium | | | | NR |
| 7440-41-7 | Beryllium | | | | NR |
| 7440-43-9 | Cadmium | | | | NR |
| 7440-70-2 | Calcium | | | | NR |
| 7440-47-3 | Chromium | | | | NR |
| 7440-48-4 | Cobalt | | | | NR |
| 7440-50-8 | Copper | | | | NR |
| 7439-89-6 | Iron | | | | NR |
| 7439-92-1 | Lead | | | | NR |
| 7439-95-4 | Magnesium | | | | NR |
| 7439-96-5 | Manganese | | | | NR |
| 7439-97-6 | Mercury | 0.11 | U | N | CV |
| 7440-02-0 | Nickel | | | | NR |
| 7440-09-7 | Potassium | | | | NR |
| 7782-49-2 | Selenium | | | | NR |
| 7440-22-4 | Silver | | | | NR |
| 7440-23-5 | Sodium | | | | NR |
| 7440-28-0 | Thallium | | | | NR |
| 7440-62-2 | Vanadium | | | | NR |
| 7440-66-6 | Zinc | | | | NR |
| 57-12-5 | Cyanide | | | | NR |

Color Before: _____

Clarity Before: OPAQUE

Texture: _____

Color After: _____

Clarity After: OPAQUE

Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

APD-CULVERT UP
0.5' 11-20-96

Lab Name: IEA

Contract: _____

Lab Code: IEA Case No.: 2581

SAS No.: _____

SDG No.: B2581Matrix (soil/water): SOILLab Sample ID: 962581B-03Level (low/med): LOWDate Received: 11/21/96% Solids: 51.3

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | | | | NR |
| 7440-36-0 | Antimony | | | | NR |
| 7440-38-2 | Arsenic | | | | NR |
| 7440-39-3 | Barium | | | | NR |
| 7440-41-7 | Beryllium | | | | NR |
| 7440-43-9 | Cadmium | | | | NR |
| 7440-70-2 | Calcium | | | | NR |
| 7440-47-3 | Chromium | | | | NR |
| 7440-48-4 | Cobalt | | | | NR |
| 7440-50-8 | Copper | | | | NR |
| 7439-89-6 | Iron | | | | NR |
| 7439-92-1 | Lead | | | | NR |
| 7439-95-4 | Magnesium | | | | NR |
| 7439-96-5 | Manganese | | | | NR |
| 7439-97-6 | Mercury | 0.17 | U | N | CV |
| 7440-02-0 | Nickel | | | | NR |
| 7440-09-7 | Potassium | | | | NR |
| 7782-49-2 | Selenium | | | | NR |
| 7440-22-4 | Silver | | | | NR |
| 7440-23-5 | Sodium | | | | NR |
| 7440-28-0 | Thallium | | | | NR |
| 7440-62-2 | Vanadium | | | | NR |
| 7440-66-6 | Zinc | | | | NR |
| 57-12-5 | Cyanide | | | | NR |

Color Before: _____

Clarity Before: OPAQUE

Texture: _____

Color After: _____

Clarity After: OPAQUE

Artifacts: _____

Comments:

VALIDATED

FORM I - IN

ILM03.0

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

Lab Name: IEA

Contract: _____

Lab Code: IEA Case No.: 2581

SAS No.: _____

| | |
|----------------|---------------|
| STR | |
| APD-CULVERT UP | 0.5' 11-20-96 |

SDG No.: B2581Matrix (soil/water): SOILLab Sample ID: 962581B-08Level (low/med): LOWDate Received: 11/21/96% Solids: 37.8

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | | | | NR |
| 7440-36-0 | Antimony | | | | NR |
| 7440-38-2 | Arsenic | | | | NR |
| 7440-39-3 | Barium | | | | NR |
| 7440-41-7 | Beryllium | | | | NR |
| 7440-43-9 | Cadmium | | | | NR |
| 7440-70-2 | Calcium | | | | NR |
| 7440-47-3 | Chromium | | | | NR |
| 7440-48-4 | Cobalt | | | | NR |
| 7440-50-8 | Copper | | | | NR |
| 7439-89-6 | Iron | | | | NR |
| 7439-92-1 | Lead | | | | NR |
| 7439-95-4 | Magnesium | | | | NR |
| 7439-96-5 | Manganese | | | | NR |
| 7439-97-6 | Mercury | 0.19 | U | N | CV |
| 7440-02-0 | Nickel | | | | NR |
| 7440-09-7 | Potassium | | | | NR |
| 7782-49-2 | Selenium | | | | NR |
| 7440-22-4 | Silver | | | | NR |
| 7440-23-5 | Sodium | | | | NR |
| 7440-28-0 | Thallium | | | | NR |
| 7440-62-2 | Vanadium | | | | NR |
| 7440-66-6 | Zinc | | | | NR |
| 57-12-5 | Cyanide | | | | NR |

Color Before: _____ Clarity Before: OPAQUE Texture: _____Color After: _____ Clarity After: OPAQUE Artifacts: _____

Comments:

VALIDATED

FORM I - IN

ILM03.0

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

APD-SDB1-0.5
11-20-96Lab Name: IEA

Contract: _____

Lab Code: IEA Case No.: 2581

SAS No.: _____

SDG No.: A2581Matrix (soil/water): SOILLab Sample ID: 962581A-20Level (low/med): LOWDate Received: 11/21/96% Solids: 21.1

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | | | | NR |
| 7440-36-0 | Antimony | | | | NR |
| 7440-38-2 | Arsenic | | | | NR |
| 7440-39-3 | Barium | | | | NR |
| 7440-41-7 | Beryllium | | | | NR |
| 7440-43-9 | Cadmium | | | | NR |
| 7440-70-2 | Calcium | | | | NR |
| 7440-47-3 | Chromium | | | | NR |
| 7440-48-4 | Cobalt | | | | NR |
| 7440-50-8 | Copper | | | | NR |
| 7439-89-6 | Iron | | | | NR |
| 7439-92-1 | Lead | | | | NR |
| 7439-95-4 | Magnesium | | | | NR |
| 7439-96-5 | Manganese | | | | NR |
| 7439-97-6 | Mercury | 0.43 | U | | CV |
| 7440-02-0 | Nickel | | | | NR |
| 7440-09-7 | Potassium | | | | NR |
| 7782-49-2 | Selenium | | | | NR |
| 7440-22-4 | Silver | | | | NR |
| 7440-23-5 | Sodium | | | | NR |
| 7440-28-0 | Thallium | | | | NR |
| 7440-62-2 | Vanadium | | | | NR |
| 7440-66-6 | Zinc | | | | NR |
| 57-12-5 | Cyanide | | | | NR |

Color Before: _____

Clarity Before: OPAQUE

Texture: _____

Color After: _____

Clarity After: OPAQUE

Artifacts: _____

Comments:

VALIDATED

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

Lab Name: IEA

Contract: _____

APD-SDB5-0.5
11-20-96Lab Code: IEA Case No.: 2581SAS No.: _____ SDG No.: A2581Matrix (soil/water): SOILLab Sample ID: 962581A-04Level (low/med): LOWDate Received: 11/21/96% Solids: 36.6

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | | | | NR |
| 7440-36-0 | Antimony | | | | NR |
| 7440-38-2 | Arsenic | | | | NR |
| 7440-39-3 | Barium | | | | NR |
| 7440-41-7 | Beryllium | | | | NR |
| 7440-43-9 | Cadmium | | | | NR |
| 7440-70-2 | Calcium | | | | NR |
| 7440-47-3 | Chromium | | | | NR |
| 7440-48-4 | Cobalt | | | | NR |
| 7440-50-8 | Copper | | | | NR |
| 7439-89-6 | Iron | | | | NR |
| 7439-92-1 | Lead | | | | NR |
| 7439-95-4 | Magnesium | | | | NR |
| 7439-96-5 | Manganese | | | | NR |
| 7439-97-6 | Mercury | 0.28 | | | CV |
| 7440-02-0 | Nickel | | | | NR |
| 7440-09-7 | Potassium | | | | NR |
| 7782-49-2 | Selenium | | | | NR |
| 7440-22-4 | Silver | | | | NR |
| 7440-23-5 | Sodium | | | | NR |
| 7440-28-0 | Thallium | | | | NR |
| 7440-62-2 | Vanadium | | | | NR |
| 7440-66-6 | Zinc | | | | NR |
| 57-12-5 | Cyanide | | | | NR |

Color Before: _____

Clarity Before: OPAQUE

Texture: _____

Color After: _____

Clarity After: OPAQUE

Artifacts: _____

Comments:

$$\frac{0.20362K0.1}{0.20 \times .366} = 0.28$$

VALIDATED

1
INORGANIC ANALYSES DATA SHEETAPD-SDB9-0.5
11-20-96

Lab Name: IEA

Contract: _____

Lab Code: IEA Case No.: 2581

SAS No.: _____

SDG No.: A2581

Matrix (soil/water): SOIL

Lab Sample ID: 962581A-08

Level (low/med): LOW

Date Received: 11/21/96

% Solids: 69.2

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | | | | NR |
| 7440-36-0 | Antimony | | | | NR |
| 7440-38-2 | Arsenic | | | | NR |
| 7440-39-3 | Barium | | | | NR |
| 7440-41-7 | Beryllium | | | | NR |
| 7440-43-9 | Cadmium | | | | NR |
| 7440-70-2 | Calcium | | | | NR |
| 7440-47-3 | Chromium | | | | NR |
| 7440-48-4 | Cobalt | | | | NR |
| 7440-50-8 | Copper | | | | NR |
| 7439-89-6 | Iron | | | | NR |
| 7439-92-1 | Lead | | | | NR |
| 7439-95-4 | Magnesium | | | | NR |
| 7439-96-5 | Manganese | | | | NR |
| 7439-97-6 | Mercury | 0.28 | | | CV |
| 7440-02-0 | Nickel | | | | NR |
| 7440-09-7 | Potassium | | | | NR |
| 7782-49-2 | Selenium | | | | NR |
| 7440-22-4 | Silver | | | | NR |
| 7440-23-5 | Sodium | | | | NR |
| 7440-26-0 | Thallium | | | | NR |
| 7440-62-2 | Vanadium | | | | NR |
| 7440-66-6 | Zinc | | | | NR |
| 57-12-5 | Cyanide | | | | NR |

Color Before: _____ Clarity Before: OPAQUE Texture: _____

Color After: _____ Clarity After: OPAQUE Artifacts: _____

Comments:

VALIDATED

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

Lab Name: IEA

Contract: _____

APD-SDC2-0.5
11-20-96Lab Code: IEA Case No.: 2581

SAS No.: _____

SDG No.: A2581Matrix (soil/water): SOILLab Sample ID: 962581A-01Level (low/med): LOWDate Received: 11/21/96% Solids: 40.8

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | | | | NR |
| 7440-36-0 | Antimony | | | | NR |
| 7440-38-2 | Arsenic | | | | NR |
| 7440-39-3 | Barium | | | | NR |
| 7440-41-7 | Beryllium | | | | NR |
| 7440-43-9 | Cadmium | | | | NR |
| 7440-70-2 | Calcium | | | | NR |
| 7440-47-3 | Chromium | | | | NR |
| 7440-48-4 | Cobalt | | | | NR |
| 7440-50-8 | Copper | | | | NR |
| 7439-89-6 | Iron | | | | NR |
| 7439-92-1 | Lead | | | | NR |
| 7439-95-4 | Magnesium | | | | NR |
| 7439-96-5 | Manganese | | | | NR |
| 7439-97-6 | Mercury | 0.24 | U | | CV |
| 7440-02-0 | Nickel | | | | NR |
| 7440-09-7 | Potassium | | | | NR |
| 7782-49-2 | Selenium | | | | NR |
| 7440-22-4 | Silver | | | | NR |
| 7440-23-5 | Sodium | | | | NR |
| 7440-28-0 | Thallium | | | | NR |
| 7440-62-2 | Vanadium | | | | NR |
| 7440-66-6 | Zinc | | | | NR |
| 57-12-5 | Cyanide | | | | NR |

Color Before: _____ Clarity Before: OPAQUE Texture: _____Color After: _____ Clarity After: OPAQUE Artifacts: _____

Comments:

VALIDATED

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

APD-SOC4-0.5
11-20-96Lab Name: IEA

Contract: _____

Lab Code: IEA Case No.: 2581

SAS No.: _____

SDG No.: A2581Matrix (soil/water): SOILLab Sample ID: 962581A-03Level (low/med): LOWDate Received: 11/21/96% Solids: 59.4

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | | | | NR |
| 7440-36-0 | Antimony | | | | NR |
| 7440-38-2 | Arsenic | | | | NR |
| 7440-39-3 | Barium | | | | NR |
| 7440-41-7 | Beryllium | | | | NR |
| 7440-43-9 | Cadmium | | | | NR |
| 7440-70-2 | Calcium | | | | NR |
| 7440-47-3 | Chromium | | | | NR |
| 7440-48-4 | Cobalt | | | | NR |
| 7440-50-8 | Copper | | | | NR |
| 7439-89-6 | Iron | | | | NR |
| 7439-92-1 | Lead | | | | NR |
| 7439-95-4 | Magnesium | | | | NR |
| 7439-96-5 | Manganese | | | | NR |
| 7439-97-6 | Mercury | 0.17 | U | | CV |
| 7440-02-0 | Nickel | | | | NR |
| 7440-09-7 | Potassium | | | | NR |
| 7782-49-2 | Selenium | | | | NR |
| 7440-22-4 | Silver | | | | NR |
| 7440-23-5 | Sodium | | | | NR |
| 7440-28-0 | Thallium | | | | NR |
| 7440-62-2 | Vanadium | | | | NR |
| 7440-66-6 | Zinc | | | | NR |
| 57-12-5 | Cyanide | | | | NR |

Color Before: _____ Clarity Before: OPAQUE Texture: _____Color After: _____ Clarity After: OPAQUE Artifacts: _____Comments:

VALIDATED

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

Lab Name: IEA

Contract: _____

APD-SDC6-0.5
11-20-96Lab Code: IEA Case No.: 2581

SAS No.: _____

SDG No.: A2581Matrix (soil/water): SOILLab Sample ID: 962581A-05Level (low/med): LOWDate Received: 11/21/96% Solids: 77.9

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|----|---|
| 7429-90-5 | Aluminum | | | NR | |
| 7440-36-0 | Antimony | | | NR | |
| 7440-38-2 | Arsenic | | | NR | |
| 7440-39-3 | Barium | | | NR | |
| 7440-41-7 | Beryllium | | | NR | |
| 7440-43-9 | Cadmium | | | NR | |
| 7440-70-2 | Calcium | | | NR | |
| 7440-47-3 | Chromium | | | NR | |
| 7440-48-4 | Cobalt | | | NR | |
| 7440-50-8 | Copper | | | NR | |
| 7439-89-6 | Iron | | | NR | |
| 7439-92-1 | Lead | | | NR | |
| 7439-95-4 | Magnesium | | | NR | |
| 7439-96-5 | Manganese | | | NR | |
| 7439-97-6 | Mercury | 0.12 | U | CV | |
| 7440-02-0 | Nickel | | | NR | |
| 7440-09-7 | Potassium | | | NR | |
| 7782-49-2 | Selenium | | | NR | |
| 7440-22-4 | Silver | | | NR | |
| 7440-23-5 | Sodium | | | NR | |
| 7440-28-0 | Thallium | | | NR | |
| 7440-62-2 | Vanadium | | | NR | |
| 7440-66-6 | Zinc | | | NR | |
| 57-12-5 | Cyanide | | | NR | |

Color Before: _____ Clarity Before: OPAQUE Texture: _____Color After: _____ Clarity After: OPAQUE Artifacts: _____

Comments:

VALIDATED

676

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

Lab Name: IEA

Contract: _____

APD-SDC8-0.5
11-20-96Lab Code: IEA Case No.: 2581

SAS No.: _____

SDG No.: A2581Matrix (soil/water): SOILLab Sample ID: 962581A-07Level (low/med): LOWDate Received: 11/21/96% Solids: 74.3

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | | | | NR |
| 7440-36-0 | Antimony | | | | NR |
| 7440-38-2 | Arsenic | | | | NR |
| 7440-39-3 | Barium | | | | NR |
| 7440-41-7 | Beryllium | | | | NR |
| 7440-43-9 | Cadmium | | | | NR |
| 7440-70-2 | Calcium | | | | NR |
| 7440-47-3 | Chromium | | | | NR |
| 7440-48-4 | Cobalt | | | | NR |
| 7440-50-8 | Copper | | | | NR |
| 7439-89-6 | Iron | | | | NR |
| 7439-92-1 | Lead | | | | NR |
| 7439-95-4 | Magnesium | | | | NR |
| 7439-96-5 | Manganese | | | | NR |
| 7439-97-6 | Mercury | 0.60 | | | CV |
| 7440-02-0 | Nickel | | | | NR |
| 7440-09-7 | Potassium | | | | NR |
| 7782-49-2 | Selenium | | | | NR |
| 7440-22-4 | Silver | | | | NR |
| 7440-23-5 | Sodium | | | | NR |
| 7440-28-0 | Thallium | | | | NR |
| 7440-62-2 | Vanadium | | | | NR |
| 7440-66-6 | Zinc | | | | NR |
| 57-12-5 | Cyanide | | | | NR |

Color Before: _____ Clarity Before: **OPAQUE** Texture: _____Color After: _____ Clarity After: **OPAQUE** Artifacts: _____

Comments:

VALIDATED

FORM I - IN

ILM03.0

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

Lab Name: IEA

Contract: _____

APD-SDC9-1.0
11-20-96Lab Code: IEA Case No.: 2581

SAS No.: _____

SDG No.: A2581Matrix (soil/water): SOILLab Sample ID: 962581A-09Level (low/med): LOWDate Received: 11/21/96% Solids: 79.9

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | | | | NR |
| 7440-36-0 | Antimony | | | | NR |
| 7440-38-2 | Arsenic | | | | NR |
| 7440-39-3 | Barium | | | | NR |
| 7440-41-7 | Beryllium | | | | NR |
| 7440-43-9 | Cadmium | | | | NR |
| 7440-70-2 | Calcium | | | | NR |
| 7440-47-3 | Chromium | | | | NR |
| 7440-48-4 | Cobalt | | | | NR |
| 7440-50-8 | Copper | | | | NR |
| 7439-89-6 | Iron | | | | NR |
| 7439-92-1 | Lead | | | | NR |
| 7439-95-4 | Magnesium | | | | NR |
| 7439-96-5 | Manganese | | | | NR |
| 7439-97-6 | Mercury | 0.12 | U | | CV |
| 7440-02-0 | Nickel | | | | NR |
| 7440-09-7 | Potassium | | | | NR |
| 7782-49-2 | Selenium | | | | NR |
| 7440-22-4 | Silver | | | | NR |
| 7440-23-5 | Sodium | | | | NR |
| 7440-28-0 | Thallium | | | | NR |
| 7440-62-2 | Vanadium | | | | NR |
| 7440-66-6 | Zinc | | | | NR |
| 57-12-5 | Cyanide | | | | NR |

Color Before: _____ Clarity Before: OPAQUE Texture: _____Color After: _____ Clarity After: OPAQUE Artifacts: _____

Comments:

VALIDATED

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

APD-SDC10-0.5
11-20-96Lab Name: IEA

Contract: _____

Lab Code: IEA Case No.: 2581SAS No.: _____ SDG No.: B2581Matrix (soil/water): SOILLab Sample ID: 962581B-04Level (low/med): LOWDate Received: 11/21/96% Solids: 79.5

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | | | | NR |
| 7440-36-0 | Antimony | | | | NR |
| 7440-38-2 | Arsenic | | | | NR |
| 7440-39-3 | Barium | | | | NR |
| 7440-41-7 | Beryllium | | | | NR |
| 7440-43-9 | Cadmium | | | | NR |
| 7440-70-2 | Calcium | | | | NR |
| 7440-47-3 | Chromium | | | | NR |
| 7440-48-4 | Cobalt | | | | NR |
| 7440-50-8 | Copper | | | | NR |
| 7439-89-6 | Iron | | | | NR |
| 7439-92-1 | Lead | | | | NR |
| 7439-95-4 | Magnesium | | | | NR |
| 7439-96-5 | Manganese | | | | NR |
| 7439-97-6 | Mercury | 43 0.12 | U | N | CV |
| 7440-02-0 | Nickel | | | | NR |
| 7440-09-7 | Potassium | | | | NR |
| 7782-49-2 | Selenium | | | | NR |
| 7440-22-4 | Silver | | | | NR |
| 7440-23-5 | Sodium | | | | NR |
| 7440-28-0 | Thallium | | | | NR |
| 7440-62-2 | Vanadium | | | | NR |
| 7440-66-6 | Zinc | | | | NR |
| 57-12-5 | Cyanide | | | | NR |

Color Before: _____

Clarity Before: OPAQUE

Texture: _____

Color After: _____

Clarity After: OPAQUE

Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

Lab Name: IEA

Contract: _____

APD-SDD3-0.5
11-20-96Lab Code: IEA Case No.: 2581

SAS No.: _____

SDG No.: A2581Matrix (soil/water): SOILLab Sample ID: 962581A-02Level (low/med): LOWDate Received: 11/21/96% Solids: 51.9

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | | | | NR |
| 7440-36-0 | Antimony | | | | NR |
| 7440-38-2 | Arsenic | | | | NR |
| 7440-39-3 | Barium | | | | NR |
| 7440-41-7 | Beryllium | | | | NR |
| 7440-43-9 | Cadmium | | | | NR |
| 7440-70-2 | Calcium | | | | NR |
| 7440-47-3 | Chromium | | | | NR |
| 7440-48-4 | Cobalt | | | | NR |
| 7440-50-8 | Copper | | | | NR |
| 7439-89-6 | Iron | | | | NR |
| 7439-92-1 | Lead | | | | NR |
| 7439-95-4 | Magnesium | | | | NR |
| 7439-96-5 | Manganese | | | | NR |
| 7439-97-6 | Mercury | 0.17 | U | | CV |
| 7440-02-0 | Nickel | | | | NR |
| 7440-09-7 | Potassium | | | | NR |
| 7782-49-2 | Selenium | | | | NR |
| 7440-22-4 | Silver | | | | NR |
| 7440-23-5 | Sodium | | | | NR |
| 7440-28-0 | Thallium | | | | NR |
| 7440-62-2 | Vanadium | | | | NR |
| 7440-66-6 | Zinc | | | | NR |
| 57-12-5 | Cyanide | | | | NR |

Color Before: _____ Clarity Before: OPAQUE Texture: _____Color After: _____ Clarity After: OPAQUE Artifacts: _____

Comments:

VALIDATED

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

Lab Name: IEA

Contract: _____

APD-SDD7-0.5
11-20-98Lab Code: IEA Case No.: 2581

SAS No.: _____

SDG No.: A2581Matrix (soil/water): SOILLab Sample ID: 962581A-06Level (low/med): LOWDate Received: 11/21/96% Solids: 63.4

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | | | | NR |
| 7440-36-0 | Antimony | | | | NR |
| 7440-38-2 | Arsenic | | | | NR |
| 7440-39-3 | Barium | | | | NR |
| 7440-41-7 | Beryllium | | | | NR |
| 7440-43-9 | Cadmium | | | | NR |
| 7440-70-2 | Calcium | | | | NR |
| 7440-47-3 | Chromium | | | | NR |
| 7440-48-4 | Cobalt | | | | NR |
| 7440-50-8 | Copper | | | | NR |
| 7439-89-6 | Iron | | | | NR |
| 7439-92-1 | Lead | | | | NR |
| 7439-95-4 | Magnesium | | | | NR |
| 7439-96-5 | Manganese | | | | NR |
| 7439-97-6 | Mercury | 0.11 | U | | CV |
| 7440-02-0 | Nickel | | | | NR |
| 7440-09-7 | Potassium | | | | NR |
| 7782-49-2 | Selenium | | | | NR |
| 7440-22-4 | Silver | | | | NR |
| 7440-23-5 | Sodium | | | | NR |
| 7440-28-0 | Thallium | | | | NR |
| 7440-32-2 | Vanadium | | | | NR |
| 7440-66-6 | Zinc | | | | NR |
| 57-12-5 | Cyanide | | | | NR |

Color Before: _____

Clarity Before: OPAQUE

Texture: _____

Color After: _____

Clarity After: OPAQUE

Artifacts: _____

Comments:

VALIDATED

FORM I - IN

ILM03.0

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

Lab Name: IEA

Contract: _____

APD-SDD9-0.5
11-20-96Lab Code: IEA Case No.: 2581

SAS No.: _____

SDG No.: A2581Matrix (soil/water): SOILLab Sample ID: 962581A-10Level (low/med): LOWDate Received: 11/21/96% Solids: 81.4

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | | | | NR |
| 7440-36-0 | Antimony | | | | NR |
| 7440-38-2 | Arsenic | | | | NR |
| 7440-39-3 | Barium | | | | NR |
| 7440-41-7 | Beryllium | | | | NR |
| 7440-43-9 | Cadmium | | | | NR |
| 7440-70-2 | Calcium | | | | NR |
| 7440-47-3 | Chromium | | | | NR |
| 7440-48-4 | Cobalt | | | | NR |
| 7440-50-8 | Copper | | | | NR |
| 7439-89-6 | Iron | | | | NR |
| 7439-92-1 | Lead | | | | NR |
| 7439-95-4 | Magnesium | | | | NR |
| 7439-96-5 | Manganese | | | | NR |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7440-02-0 | Nickel | | | | NR |
| 7440-09-7 | Potassium | | | | NR |
| 7782-49-2 | Selenium | | | | NR |
| 7440-22-4 | Silver | | | | NR |
| 7440-23-5 | Sodium | | | | NR |
| 7440-28-0 | Thallium | | | | NR |
| 7440-64-2 | Vanadium | | | | NR |
| 7440-66-6 | Zinc | | | | NR |
| 57-12-5 | Cyanide | | | | NR |

Color Before: _____

Clarity Before: OPAQUE

Texture: _____

Color After: _____

Clarity After: OPAQUE

Artifacts: _____

Comments:

VALIDATED

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

Lab Name: IEA

Contract: _____

APD-SDT1(B)-0.5
11-20-96

Lab Code: IEA Case No.: 2581

SAS No.: _____ SDG No.: A2581

Matrix (soil/water): SOIL

Lab Sample ID: 962581A-11

Level (low/med): LOW

Date Received: 11/21/96

% Solids: 47.3

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | | | | NR |
| 7440-36-0 | Antimony | | | | NR |
| 7440-38-2 | Arsenic | | | | NR |
| 7440-39-3 | Barium | | | | NR |
| 7440-41-7 | Beryllium | | | | NR |
| 7440-43-9 | Cadmium | | | | NR |
| 7440-70-2 | Calcium | | | | NR |
| 7440-47-3 | Chromium | | | | NR |
| 7440-48-4 | Cobalt | | | | NR |
| 7440-50-8 | Copper | | | | NR |
| 7439-89-6 | Iron | | | | NR |
| 7439-92-1 | Lead | | | | NR |
| 7439-95-4 | Magnesium | | | | NR |
| 7439-96-5 | Manganese | | | | NR |
| 7439-97-6 | Mercury | 0.44 | | | CV |
| 7440-02-0 | Nickel | | | | NR |
| 7440-09-7 | Potassium | | | | NR |
| 7782-49-2 | Selenium | | | | NR |
| 7440-22-4 | Silver | | | | NR |
| 7440-23-5 | Sodium | | | | NR |
| 7440-28-0 | Thallium | | | | NR |
| 7440-62-2 | Vanadium | | | | NR |
| 7440-66-6 | Zinc | | | | NR |
| 57-12-5 | Cyanide | | | | NR |

Color Before: _____ Clarity Before: OPAQUE Texture: _____

Color After: _____ Clarity After: OPAQUE Artifacts: _____

Comments:

VALIDATED

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

Lab Name: IEA

Contract: _____

APD-SDT1(C)-0.5
11-20-96Lab Code: IEA Case No.: 2581

SAS No.: _____

SDG No.: A2581Matrix (soil/water): SOILLab Sample ID: 962581A-12Level (low/med): LOWDate Received: 11/21/96% Solids: 53.4

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | | | | NR |
| 7440-36-0 | Antimony | | | | NR |
| 7440-38-2 | Arsenic | | | | NR |
| 7440-39-3 | Barium | | | | NR |
| 7440-41-7 | Beryllium | | | | NR |
| 7440-43-9 | Cadmium | | | | NR |
| 7440-70-2 | Calcium | | | | NR |
| 7440-47-3 | Chromium | | | | NR |
| 7440-48-4 | Cobalt | | | | NR |
| 7440-50-8 | Copper | | | | NR |
| 7439-89-6 | Iron | | | | NR |
| 7439-92-1 | Lead | | | | NR |
| 7439-95-4 | Magnesium | | | | NR |
| 7439-96-5 | Manganese | | | | NR |
| 7439-97-6 | Mercury | 1.4 | | | CV |
| 7440-02-0 | Nickel | | | | NR |
| 7440-09-7 | Potassium | | | | NR |
| 7782-49-2 | Selenium | | | | NR |
| 7440-22-4 | Silver | | | | NR |
| 7440-23-5 | Sodium | | | | NR |
| 7440-28-0 | Thallium | | | | NR |
| 7440-62-2 | Vanadium | | | | NR |
| 7440-66-6 | Zinc | | | | NR |
| 57-12-5 | Cyanide | | | | NR |
| | | | | | |

Color Before: _____ Clarity Before: OPAQUE Texture: _____Color After: _____ Clarity After: OPAQUE Artifacts: _____

Comments:

VALIDATED

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

Lab Name: IEA

Contract#

APD-SDT1 (D) -0.5
11-20-96

Lab Code: IEA Case No.: 2581

SAS No.:

SDG No.: A2581

Matrix (soil/water): SOIL

Lab Sample ID: 962581A-13

Level (low/med): LOW

Date Received: 11/21/96

% Solids: 40.4

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | | | | NR |
| 7440-36-0 | Antimony | | | | NR |
| 7440-38-2 | Arsenic | | | | NR |
| 7440-39-3 | Barium | | | | NR |
| 7440-41-7 | Beryllium | | | | NR |
| 7440-43-9 | Cadmium | | | | NR |
| 7440-70-2 | Calcium | | | | NR |
| 7440-47-3 | Chromium | | | | NR |
| 7440-48-4 | Cobalt | | | | NR |
| 7440-50-8 | Copper | | | | NR |
| 7439-89-6 | Iron | | | | NR |
| 7439-92-1 | Lead | | | | NR |
| 7439-95-4 | Magnesium | | | | NR |
| 7439-96-5 | Manganese | | | | NR |
| 7439-97-6 | Mercury | 2.6 | | | CV |
| 7440-02-0 | Nickel | | | | NR |
| 7440-09-7 | Potassium | | | | NR |
| 7782-49-2 | Selenium | | | | NR |
| 7440-22-4 | Silver | | | | NR |
| 7440-23-5 | Sodium | | | | NR |
| 7440-28-0 | Thallium | | | | NR |
| 7440-62-2 | Vanadium | | | | NR |
| 7440-66-6 | Zinc | | | | NR |
| 57-12-5 | Cyanide | | | | NR |

Color Before: _____ Clarity Before: OPAQUE Texture: _____

Color After: _____ Clarity After: OPAQUE Artifacts: _____

Comments:

VALIDATED

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

Lab Name: IEA

Contract: _____

APD-SDT2 (B) -0.5
11-20-96Lab Code: IEA Case No.: 2581SAS No.: _____ SDG No.: A2581Matrix (soil/water): SOILLab Sample ID: 962581A-14Level (low/med): LOWDate Received: 11/21/96% Solids: 52.9

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | | | | NR |
| 7440-36-0 | Antimony | | | | NR |
| 7440-38-2 | Arsenic | | | | NR |
| 7440-39-3 | Barium | | | | NR |
| 7440-41-7 | Beryllium | | | | NR |
| 7440-43-9 | Cadmium | | | | NR |
| 7440-70-2 | Calcium | | | | NR |
| 7440-47-3 | Chromium | | | | NR |
| 7440-48-4 | Cobalt | | | | NR |
| 7440-50-8 | Copper | | | | NR |
| 7439-89-6 | Iron | | | | NR |
| 7439-92-1 | Lead | | | | NR |
| 7439-95-4 | Magnesium | | | | NR |
| 7439-96-5 | Manganese | | | | NR |
| 7439-97-6 | Mercury | 0.15 | U | | CV |
| 7440-02-0 | Nickel | | | | NR |
| 7440-09-7 | Potassium | | | | NR |
| 7782-49-2 | Selenium | | | | NR |
| 7440-22-4 | Silver | | | | NR |
| 7440-23-5 | Sodium | | | | NR |
| 7440-28-0 | Thallium | | | | NR |
| 7440-62-2 | Vanadium | | | | NR |
| 7440-66-6 | Zinc | | | | NR |
| 57-12-5 | Cyanide | | | | NR |

Color Before: _____ Clarity Before: OPAQUE Texture: _____Color After: _____ Clarity After: OPAQUE Artifacts: _____

Comments:

VALIDATED

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

Lab Name: IEA

Contract# _____

APD-SDT2(C)-0.5
11-20-96Lab Code: IEA Case No.: 2581

SAS No.: _____

SDG No.: A2581Matrix (soil/water): SOILLab Sample ID: 962581A-15Level (low/med): LOWDate Received: 11/21/96% Solids: 35.4

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | | | | NR |
| 7440-36-0 | Antimony | | | | NR |
| 7440-38-2 | Arsenic | | | | NR |
| 7440-39-3 | Barium | | | | NR |
| 7440-41-7 | Beryllium | | | | NR |
| 7440-43-9 | Cadmium | | | | NR |
| 7440-70-2 | Calcium | | | | NR |
| 7440-47-3 | Chromium | | | | NR |
| 7440-48-4 | Cobalt | | | | NR |
| 7440-50-8 | Copper | | | | NR |
| 7439-89-6 | Iron | | | | NR |
| 7439-92-1 | Lead | | | | NR |
| 7439-95-4 | Magnesium | | | | NR |
| 7439-96-5 | Manganese | | | | NR |
| 7439-97-6 | Mercury | 6.1 | | | CV |
| 7440-02-0 | Nickel | | | | NR |
| 7440-09-7 | Potassium | | | | NR |
| 7782-49-2 | Selenium | | | | NR |
| 7440-22-4 | Silver | | | | NR |
| 7440-23-5 | Sodium | | | | NR |
| 7440-28-0 | Thallium | | | | NR |
| 7440-62-2 | Vanadium | | | | NR |
| 7440-66-6 | Zinc | | | | NR |
| 57-12-5 | Cyanide | | | | NR |

Color Before: _____ Clarity Before: OPAQUE Texture: _____Color After: _____ Clarity After: OPAQUE Artifacts: _____

Comments:

VALIDATED

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

Lab Name: IEA

Contract: _____

APD-SDT2(D)-0.5
11-20-96Lab Code: IEA Case No.: 2581

SAS No.: _____

SDG No.: A2581Matrix (soil/water): SOILLab Sample ID: 962581A-16Level (low/med): LOWDate Received: 11/21/96% Solids: 43.4

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | | | | NR |
| 7440-36-0 | Antimony | | | | NR |
| 7440-38-2 | Arsenic | | | | NR |
| 7440-39-3 | Barium | | | | NR |
| 7440-41-7 | Beryllium | | | | NR |
| 7440-43-9 | Cadmium | | | | NR |
| 7440-70-2 | Calcium | | | | NR |
| 7440-47-3 | Chromium | | | | NR |
| 7440-48-4 | Cobalt | | | | NR |
| 7440-50-8 | Copper | | | | NR |
| 7439-89-6 | Iron | | | | NR |
| 7439-92-1 | Lead | | | | NR |
| 7439-95-4 | Magnesium | | | | NR |
| 7439-96-5 | Manganese | | | | NR |
| 7439-97-6 | Mercury | 1.6 | | | CV |
| 7440-02-0 | Nickel | | | | NR |
| 7440-09-7 | Potassium | | | | NR |
| 7782-49-2 | Selenium | | | | NR |
| 7440-22-4 | Silver | | | | NR |
| 7440-23-5 | Sodium | | | | NR |
| 7440-28-0 | Thallium | | | | NR |
| 7440-62-2 | Vanadium | | | | NR |
| 7440-66-6 | Zinc | | | | NR |
| 57-12-5 | Cyanide | | | | NR |

Color Before: _____ Clarity Before: OPAQUE Texture: _____Color After: _____ Clarity After: OPAQUE Artifacts: _____

Comments:

VALIDATED

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

APD-SDT3 (B) -0.5
11-20-96

Lab Name: IEA

Contract:

Lab Code: IEA Case No.: 2581

SAS No.:

SDG No.: A2581

Matrix (soil/water): SOIL

Lab Sample ID: 962581A-17

Level (low/med): LOW

Date Received: 11/21/96

% Solids: 42.8

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | | | | NR |
| 7440-36-0 | Antimony | | | | NR |
| 7440-38-2 | Arsenic | | | | NR |
| 7440-39-3 | Barium | | | | NR |
| 7440-41-7 | Beryllium | | | | NR |
| 7440-43-9 | Cadmium | | | | NR |
| 7440-70-2 | Calcium | | | | NR |
| 7440-47-3 | Chromium | | | | NR |
| 7440-48-4 | Cobalt | | | | NR |
| 7440-50-8 | Copper | | | | NR |
| 7439-89-6 | Iron | | | | NR |
| 7439-92-1 | Lead | | | | NR |
| 7439-95-4 | Magnesium | | | | NR |
| 7439-96-5 | Manganese | | | | NR |
| 7439-97-6 | Mercury | 1.2 | | | CV |
| 7440-02-0 | Nickel | | | | NR |
| 7440-09-7 | Potassium | | | | NR |
| 7782-49-2 | Selenium | | | | NR |
| 7440-22-4 | Silver | | | | NR |
| 7440-23-5 | Sodium | | | | NR |
| 7440-78-0 | Tellurium | | | | NR |
| 7440-62-2 | Vanadium | | | | NR |
| 7440-66-6 | Zinc | | | | NR |
| 57-12-5 | Cyanide | | | | NR |

Color Before: _____ Clarity Before: OPAQUE Texture: _____

Color After: _____ Clarity After: OPAQUE Artifacts: _____

Comments:

VALIDATED

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

Lab Name: IEA

Contract: _____

APD-SDT3 (C) -1.0
11-20-96Lab Code: IEA Case No.: 2581

SAS No.: _____

SDG No.: A2581Matrix (soil/water): SOILLab Sample ID: 962581A-18Level (low/med): LOWDate Received: 11/21/96% Solids: 70.7

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | | | | NR |
| 7440-36-0 | Antimony | | | | NR |
| 7440-38-2 | Arsenic | | | | NR |
| 7440-39-3 | Barium | | | | NR |
| 7440-41-7 | Beryllium | | | | NR |
| 7440-43-9 | Cadmium | | | | NR |
| 7440-70-2 | Calcium | | | | NR |
| 7440-47-3 | Chromium | | | | NR |
| 7440-48-4 | Cobalt | | | | NR |
| 7440-50-8 | Copper | | | | NR |
| 7439-89-6 | Iron | | | | NR |
| 7439-92-1 | Lead | | | | NR |
| 7439-95-4 | Magnesium | | | | NR |
| 7439-96-5 | Manganese | | | | NR |
| 7439-97-6 | Mercury | 0.13 | U | | CV |
| 7440-02-0 | Nickel | | | | NR |
| 7440-09-7 | Potassium | | | | NR |
| 7782-49-2 | Selenium | | | | NR |
| 7440-22-4 | Silver | | | | NR |
| 7440-23-5 | Sodium | | | | NR |
| 7440-23-0 | Thallium | | | | NR |
| 7440-62-2 | Vanadium | | | | NR |
| 7440-66-6 | Zinc | | | | NR |
| 57-12-5 | Cyanide | | | | NR |

Color Before: _____

Clarity Before: OPAQUE

Texture: _____

Color After: _____

Clarity After: OPAQUE

Artifacts: _____

Comments:

VALIDATED

ILM03.0

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

APD-SDT3 (D) - 0.5
11-20-96

Lab Name: IEA

Contract: _____

Lab Code: IEA Case No.: 2581

SAS No.: _____

SDG No.: A2581

Matrix (soil/water): SOIL

Lab Sample ID: 962581A-19

Level (low/med): LOW

Date Received: 11/21/96

% Solids: 30.8

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | | | | NR |
| 7440-36-0 | Antimony | | | | NR |
| 7440-38-2 | Arsenic | | | | NR |
| 7440-39-3 | Barium | | | | NR |
| 7440-41-7 | Beryllium | | | | NR |
| 7440-43-9 | Cadmium | | | | NR |
| 7440-70-2 | Calcium | | | | NR |
| 7440-47-3 | Chromium | | | | NR |
| 7440-48-4 | Cobalt | | | | NR |
| 7440-50-8 | Copper | | | | NR |
| 7439-89-6 | Iron | | | | NR |
| 7439-92-1 | Lead | | | | NR |
| 7439-95-4 | Magnesium | | | | NR |
| 7439-96-5 | Manganese | | | | NR |
| 7439-97-6 | Mercury | 2.5 | | | CV |
| 7440-02-0 | Nickel | | | | NR |
| 7440-09-7 | Potassium | | | | NR |
| 7782-49-2 | Selenium | | | | NR |
| 7440-22-4 | Silver | | | | NR |
| 7440-23-5 | Sodium | | | | NR |
| 7440-28-0 | Thallium | | | | NR |
| 7440-62-2 | Vanadium | | | | NR |
| 7440-66-6 | Zinc | | | | NR |
| 57-12-5 | Cyanide | | | | NR |

Color Before: _____ Clarity Before: OPAQUE Texture: _____

Color After: _____ Clarity After: OPAQUE Artifacts: _____

Comments:

VALIDATED

FORM I - IN

ILM03.0

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

APD-SDT4 (B) - 0.5
11-20-96Lab Name: IEA

Contract: _____

Lab Code: IEACase No.: 2581

SAS No.: _____

SDG No.: B2581Matrix (soil/water): SOILLab Sample ID: 962581B-05Level (low/med): LOWDate Received: 11/21/96% Solids: 69.3

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | | | | NR |
| 7440-36-0 | Antimony | | | | NR |
| 7440-38-2 | Arsenic | | | | NR |
| 7440-39-3 | Barium | | | | NR |
| 7440-41-7 | Beryllium | | | | NR |
| 7440-43-9 | Cadmium | | | | NR |
| 7440-70-2 | Calcium | | | | NR |
| 7440-47-3 | Chromium | | | | NR |
| 7440-48-4 | Cobalt | | | | NR |
| 7440-50-8 | Copper | | | | NR |
| 7439-89-6 | Iron | | | | NR |
| 7439-92-1 | Lead | | | | NR |
| 7439-95-4 | Magnesium | | | | NR |
| 7439-96-5 | Manganese | | | | NR |
| 7439-97-6 | Mercury | 0.19 | U | N | CV |
| 7440-02-0 | Nickel | | | | NR |
| 7440-09-7 | Potassium | | | | NR |
| 7782-49-2 | Selenium | | | | NR |
| 7440-22-4 | Silver | | | | NR |
| 7440-23-5 | Sodium | | | | NR |
| 7440-28-0 | Thallium | | | | NR |
| 7440-62-2 | Vanadium | | | | NR |
| 7440-66-6 | Zinc | | | | NR |
| 57-12-5 | Cyanide | | | | NR |

Color Before: _____ Clarity Before: OPAQUE Texture: _____Color After: _____ Clarity After: OPAQUE Artifacts: _____

Comments:

VALIDATED

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

APD-SDT4(C)-1.0
11-20-96

Lab Name: IEA

Contract: _____

Lab Code: IEA Case No.: 2581

SAS No. _____

SDG No.: B2581

Matrix (soil/water): SOIL

Lab Sample ID: 962581B-06

Level (low/med): LOW

Date Received: 11/21/96

% Solids: 66.3

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|----|----|
| 7429-90-5 | Aluminum | | | | NR |
| 7440-36-0 | Antimony | | | | NR |
| 7440-38-2 | Arsenic | | | | NR |
| 7440-39-3 | Barium | | | | NR |
| 7440-41-7 | Beryllium | | | | NR |
| 7440-43-9 | Cadmium | | | | NR |
| 7440-70-2 | Calcium | | | | NR |
| 7440-47-3 | Chromium | | | | NR |
| 7440-48-4 | Cobalt | | | | NR |
| 7440-50-8 | Copper | | | | NR |
| 7439-89-6 | Iron | | | | NR |
| 7439-92-1 | Lead | | | | NR |
| 7439-95-4 | Magnesium | | | | NR |
| 7439-96-5 | Manganese | | | | NR |
| 7439-97-6 | Mercury | 0.28 | N | CV | |
| 7440-02-0 | Nickel | | | | NR |
| 7440-09-7 | Potassium | | | | NR |
| 7782-49-2 | Selenium | | | | NR |
| 7440-22-4 | Silver | | | | NR |
| 7440-23-5 | Sodium | | | | NR |
| 7440-28-0 | Thallium | | | | NR |
| 7440-62-2 | Vanadium | | | | NR |
| 7440-66-6 | Zinc | | | | NR |
| 57-12-5 | Cyanide | | | | NR |

Color Before: _____ Clarity Before: OPAQUE Texture: _____

Color After: _____ Clarity After: OPAQUE Artifacts: _____

Comments:

VALIDATED

ILM03.0

FORM I - IN

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

Lab Name: IEA

Contract: _____

APD-SDT4 (D) - 0.5
11-20-96Lab Code: IEA Case No.: 2581

SAS No.: _____

SDG No.: B2581Matrix (soil/water): SOILLab Sample ID: 962581B-07Level (low/med): LOWDate Received: 11/21/96% Solids: 73.5

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | | | | NR |
| 7440-36-0 | Antimony | | | | NR |
| 7440-38-2 | Arsenic | | | | NR |
| 7440-39-3 | Barium | | | | NR |
| 7440-41-7 | Beryllium | | | | NR |
| 7440-43-9 | Cadmium | | | | NR |
| 7440-70-2 | Calcium | | | | NR |
| 7440-47-3 | Chromium | | | | NR |
| 7440-48-4 | Cobalt | | | | NR |
| 7440-50-8 | Copper | | | | NR |
| 7439-89-6 | Iron | | | | NR |
| 7439-92-1 | Lead | | | | NR |
| 7439-95-4 | Magnesium | | | | NR |
| 7439-96-5 | Manganese | | | | NR |
| 7439-97-6 | Mercury | 45 0.12 | U | N | CV |
| 7440-02-0 | Nickel | | | | NR |
| 7440-09-7 | Potassium | | | | NR |
| 7782-49-2 | Selenium | | | | NR |
| 7440-22-4 | Silver | | | | NR |
| 7440-23-5 | Sodium | | | | NR |
| 7440-28-0 | Thallium | | | | NR |
| 7440-62-2 | Vanadium | | | | NR |
| 7440-66-6 | Zinc | | | | NR |
| 57-12-5 | Cyanide | | | | NR |

Color Before: _____

Clarity Before: OPAQUE

Texture: _____

Color After: _____

Clarity After: OPAQUE

Artifacts: _____

Comments:

VALIDATED

